

```

1 AATTAATTGG ATTCCGGTGA GAAAGCGGAG TGTATAGAG TGGTGGTAAT
51 GGAAGAA TTTTGGTTTG AAAAGAGGAT GTTGTGCTAT AAAGAGGGG
101 TCGGAGGCTG GCGTGGGCTC TACCGGAGGA GAGATCCCGG GAGAAGCTCA
151 GAGTTCGGG GAGGCGTCC TCGAAGAGG GGGGCGAAGA TGCTGTGGG
201 GAGGGGGAT GTGGCAGCAT AAATACATTT TGTGSGAGG ATCATTGGGA
251 AATTTTAAAG GAAAAAATAA AAATTTATCA TTGCAATTC CAGAGTCCA
301 AAGTGTGCA TCATTATTG CAACGATGGG TTGTGTGAGA TGACTGGTTT
351 CTCCAGGGCA GATGTCAATC AAAAGGATG CACCTGGAC TTCTCTCATG
401 GACCCGAGAC CAAGAAGCAT GATATTCCCG AAATTCGCA GGCATTTCGTG
451 GGTATAGAAG AGAGGAAAT GAGGTGACG TACTATGACA AAAATGGTG
501 CACTTTTATT GTTAACATC ACATAATTCC AGTGAAAAAC CAAGAAGGGG
551 TGGCTATGAT GTTCATCATT AAATTTGAAAT ATGTGAGGA TAATGAAAAC
601 GCTGCCACCC CAGAGAGGCT AAACCGAATA TTACCAATCA AAAGTGTAAA
651 CCGGAAATTT TTGGGTTCGA AATTCCTTG TCTGAGACTT CTCAATTACA
701 GAAAGCAGTC CTTACCAAA GAGGAGCGG ATGTGTGGG CATCGATTCA
751 TCTAAACACA GTGATGATC ATGAGCGATG AAGCAITTTA AGTCTCTAC
801 AAAAGAAAAG TCGAGCGCTT CTGAAGGAGA TGACACAAAA GCTTGTATAC
851 AGCCAGCAA ATGTTCTCCG TTGCTGAATA TATCGGACG TTTGACCAT
901 TCCTCTCCCA AAAAGGCAATG GAGCGGATC TACCTGACA TGCTGAGTC
951 AAGTTCGCA CTCTCCCAT CTGATGAG GGAAGGTTA GTTATATAC
1001 GAGAGGATC TTGGGTGAT GATATAAAG GATTGGCGT CAGCGCAAG
1051 AACATATTTA GAGAGGACA GCGCAGGAA GAGATGCTG GCAATGTCA
1101 AGTTTCAGGT CCTGGGATGG CAGGGGGGCG TTTTAATCAT ATCAAGTCAA
1151 GCTCTCTGGG ATCCCATCA GATTCAAGC TCAACAAATA CAGCAACATT
1201 AACAGATTC CAGAGGTGAC TGTGAATTTT TCAGAGTCA AAAGTGAAG
1251 AAAGAATTCA TCACTCTCT CTTCAGATAA AAGCATTTT GCAAGCAAGG
1301 TTAAGGATCG AACACAAAT GTGATGAGA AAGTGAGCCA GGTCTCTCT
1351 TTAGGAGCAG ATGCTGATC TGAATCAAA CTGCGAGAC CAGCGATCAA
1401 CAAGTTTACG ATATTGCACT ACAGCGCTTT CAAGGAGTG TGGGATGGG
1451 TTATCTGCT GTTGGTCAIA TACAGTGTA TATTGATCC CTACTGTGA
1501 GCTTCTCTC TCAATGACAG AGAAGAACAG AAAAGAGAG AATGTGGCTA
1551 TTCTTGTAGC CTTTGAATG TGCTAGACTT GATTGTGGAT ATTATGTTTA
1601 TCATAGATAT TTTAATAAAG TCGAGAACAA CATATGTAAA TCAGAAATGAA
1651 GAAGTGGTAA GTGATCCCGC CAAAATAGCA ATACACTACT TCAAGGCTG
1701 GTTCTGATT GACATGGTGG CAGCAATTC TTTTGAATTG CTGATTTTGG
1751 GATCAGGTTG TGATGAGGTA AGAAGTGCTT AAGATTCTTA TTTTGTGAAA
1801 GATTGCAATT ATAAAAGTGA ATGTATTTTA ACTGCAAAAA GAAGAGTTGC
1851 TTTGCAAGCT TCTGTATCT CAGTGATAAA ATTGATTTTC AATTGGGGAT
1901 ACTACAGAAAT GAAATGAAAC CATTTTGGCA TTGCAAAATCA AATTCTTTCT
1951 CTTTTTGTGA AGAGATGCAA AAGATTCCTC ATCTTTTAC CAGCAAAATTA
2001 AAGTTGAAA CAAGTGGTCC ATAGCAGACA GAGATTCTG AGGATTTTAA
2051 ATCTCTACTT ATTAACCTCA CGGCTGTAAA ACTCTCAAAT ACTAAGTATG
2101 TCTGTGTTTT TCTTAACCTA TTGTTAAGGG TTTGAGACAG CAGAGATTTG
2151 GTTTTTTTTT TCAAAATTATT GTGAAGAGGG CCGCTTTTC GAAAT (SEQ ID NO:1)

```

FEATURES

```

CDS:             1..215
Start Codon:     ATG
Stop Codon:      TGA
3'UTR:           1..3

```

HOMOLOGOUS PROTEINS:Top 10 BLAST Hits:

	Score	E
CRA 113000007713533 /altid=gi 14104136 /def=gb AAD01946.1 (AF03...	1058	0.0
CRA 36000087530063 /altid=gi 11121255 /def=emb CAC14740.1 (AJ2...	1041	0.0
CRA 180000005124020 /altid=gi 2745727 /def=gb AAB94741.1 (AF016...	1039	0.0
CRA 180000005107889 /altid=gi 7305203 /def=ref NP_038597.1 pota...	592	e-168
CRA 180000005107891 /altid=gi 2582015 /def=gb AAC53420.1 (AF012...	591	e-168
CRA 180000005084931 /altid=gi 2190505 /def=emb CAB09536.1 (Z961...	589	e-167
CRA 180000004922641 /altid=gi 4557729 /def=ref NP_000229.1 pota...	580	e-164
CRA 1080000024648805 /altid=gi 12733043 /def=ref XP_004743.2 po...	580	e-164
CRA 164000136746223 /altid=gi 11933152 /def=dbj BAB19682.1 (AB...	580	e-164
CRA 1000737074349 /altid=gi 6687230 /def=emb CAB64868.1 (AJ243...	570	e-161

BLAST dbEST hit:

gi 2229460 /dataset=dbest /taxon=9606 ...	434	e-119
---	-----	-------

EXPRESSION INFORMATION FOR MODULATORY USE:

library source:

From BLAST dbEST hit:

gi|2229460 testis

From tissue screening panels:

whole_brain

1 MTRFGHVAAP QNTFLSTLIP EEFHAKNEFI IANAPVQNGA ILYNWGFEE
 51 MTRFSPHVM QNFPTDPLH EETTERHPIA QIAQALLSSE EKVETTYVH
 101 KNGTEFCHET HIIPVKNQEG VAMMEIINEE YVTDNNAAT PERVNHILEI
 151 PTNNREFFEG EEPGLRLITY PKQLPQELP DTVVILSSKH SIDSTAMEHE
 201 KAPTEHNPZ SEALITKALI QPSKTSPIW ISSPLDHSSP FRQWDELYPE
 251 MIQSSSQLSH SRSPESLCST RRASSVHDIE GEGVHPKNIF RDRHASEDNG
 301 RNVEVSPSWM AGHPFNHKS SLLGNTSDSN LNKYSTINKI PQLTINFSEV
 351 ETEKKNRSPS SSDKTLIAIK VEDRTHNVTE KVTQVLSLGA DVLPEYKLOT
 401 PRINKETILH YSPFHAVWDW LILLVITYA IFTPYSA AFL INDREEQKRR
 451 ECGYSCSPLN VVDLIVDIME IIDILINERT TYVNQNEEVV SDPAKIAIHY
 501 FKGWFLHIMV AAIPFDLIF CSQSDVVRTA (SEQ ID NO:2)

FEATURES:

Functional domains and key regions:

[1] PDOC00001 P00001 ASN_GLYCOSYLATION

N-glycosylation site

Number of matches: 4

1	102-105	NGST
2	130-133	NISG
3	346-349	NFSE
4	377-380	NVTE

[2] PDOC00004 P00004 CAMP_PHOSPHO_SITE

cAMP- and cGMP-dependent protein kinase phosphorylation site

Number of matches: 3

1	171-174	EEQS
2	271-274	EEAS
3	354-357	KKNS

[3] PDOC00005 P00005 PKC_PHOSPHO_SITE

Protein kinase C phosphorylation site

Number of matches: 9

1	74-76	TFF
2	169-171	TYF
3	187-189	SSF
4	239-241	SPF
5	269-271	SIF
6	352-354	TEK
7	379-381	TEK
8	387-389	TEK
9	391-393	TEF

[4] PDOC00006 P00006 PKC_PHOSPHO_SITE

Protein kinase C phosphorylation site

Number of matches: 6

1	55-58	SRPD
2	133-136	TINE
3	209-212	SPSE
4	211-214	SEAD
5	271-274	EVHI
6	352-355	SEAD

[5] PD00000007 PD000007 TYR_PHOSPHO SITE
Tyrosine kinase phosphorylation site

Number of matches: 3

1 92-99 PPVEVTTY
2 241-248 PPQWDELY
3 448-454 ERREDCGY

[6] PD00000008 PD000008 MYRISTYL
N-myristoylation site

312-317 GGPFNH

Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	420	440	1.885	Certain
2	504	524	1.071	Certain


```

FCRA[11306662753813 /def-gp:AA[2194-11
(AE032997) potassium channel subunit [Homo sapiens]
/org:Homo sapiens /taxon:9606 /dataset:nr1 /length=1196
length=1196

```

Query: 1	MPVREGHVAPQNTFLGTIIIRKFEQNKKEFIIANARVQNCALITYCNDGFCENTGFSRPDVM	60
Subject: 1	MPVREGHVAPQNTFLGTIIIRKFEQNKKEFIIANARVQNCALITYCNDGFCENTGFSRPDVM	60
Query: 61	QKPTCTDFLHGPEPTEHRHDIACQAALLGSEERKVEVITYYHKGSTFICNTHIIPVENQEG	120
Subject: 61	QKPTCTDFLHGPEPTEHRHDIACQAALLGSEERKVEVITYYHKGSTFICNTHIIPVENQEG	120
Query: 121	VAMHFIINFEYVTDNENAAT:ERVNPILEIKTVNHEFFGFEFPGLELLTYRKQSLPQEDP	180
Subject: 121	VAMHFIINFEYVTDNENAAT:ERVNPILEIKTVNHEFFGFEFPGLELLTYRKQSLPQEDP	180
Query: 181	DVWVIDSSKHJDDSVAMKHEFFSPTEKESCFSEADETKALIQPSKCSPLVNIISGPIIDHESP	240
Subject: 181	DVWVIDSSKHJDDSVAMKHEFFSPTEKESCFSEADETKALIQPSKCSPLVNIISGPIIDHESP	240
Query: 241	KRQWDFLYPDHLQSSSQLSHCFSEFSLCSIFRANSVHDIECFGVHPENIFEDFHASEING	300
Subject: 241	KRQWDFLYPDHLQSSSQLSHCFSEFSLCSIFRANSVHDIECFGVHPENIFEDFHASEING	300
Query: 301	RNVKVSRSWMAGGPFNNHIKSSLLGNTSDENLNKYSTINKIPIQLTLNFSEVVKTEKNSSPP	360
Subject: 301	RNVKVSRSWMAGGPFNNHIKSSLLGNTSDENLNKYSTINKIPIQLTLNFSEVVKTEKNSSPP	360
Query: 361	SSDKTIIAPKWKDRTHNVTEKVTQVLSIGADVLPYKQLQTPINKFTILHYSEFKAVWIDW	420
Subject: 361	SSDKTIIAPKWKDRTHNVTEKVTQVLSIGADVLPYKQLQTPINKFTILHYSEFKAVWIDW	420
Query: 421	LILLLVITYAIFTPYSAAFLLNDEEQFERECGYSCSPLNVVDLIVDINFIIDILINFET	480
Subject: 421	LILLLVITYAIFTPYSAAFLLNDEEQFERECGYSCSPLNVVDLIVDINFIIDILINFET	480
Query: 481	TYVQNQNEEVSDPAKIAIHYHFGWFLIMVAAIPEDLLIEGSGSDEVT	529
Subject: 481	TYVQNQNEEVSDPAKIAIHYHFGWFLIMVAAIPEDLLIEGSGSDEVT	529

Accession	Protein	Score	E-value	Length
PF00414	Transmembrane domain, cyclic nucleotide-gated	34.7	1.1e-08	1
CE00367	Escherichia coli cyclic nucleotide-gated channel	30.3	5.1e-08	1
PF00785	PAS motif	16.2	0.106	1
PF00989	PAS domain	6.3	5.7	1

$M_{\text{bol}}^{\text{bol}}$	τ (min)	$\alpha_{\text{bol}} = 1 - \beta_{\text{bol}} = 1 - \frac{\text{burst}}{\text{burst} + \text{quiet}}$	$\beta_{\text{bol}} = \frac{\text{burst}}{\text{burst} + \text{quiet}}$	$\alpha_{\text{bol}}^{\text{bol}}$	$\beta_{\text{bol}}^{\text{bol}}$
1E1804-94	1/1	41	59	26	45

```

1 CTAAGAGAGT ATAGAGGTTT TATTGSGCTG CTTACTTTTA AAATAAACTT
51 TATTAGATAT AAAATTCAAC ATTGCTAGCA AACTTTTGG TTTAATTAT
101 TTTATTACT CTSATATTAA AGAGGAAGAA TTAATTGAST TATTGATTTT
151 GTTTAGATTT GGGGGGTTGT GGTTTTGGAA CATAAAAGTT GTTATGCTTA
201 GTTGTGTTT ATTSAAATTC ACCTGATTA CCTTCTAAA CTAACTTGG
251 TTCTGCTCTT TTTCTASTTC TACTCTCATT ATTTAACTTC AATTTCAGG
301 CTGTAACTGA GAAANTAA GA ACCCAGCTGA CTCAAGGCA AGGCATAGGA
351 GGCTAATGAG GPGCAAGAAG CCCCCCAAA TCTATCATGC AACTGCATGT
401 GTTGACAGGA APCCTGGAGC TTTTATTTTC AGCAGGAAAT GAGAGATTCA
451 TCTGTCTTCT GCTTSGTAG ATTGAAATCT TACCAAATTC CATTTAGAGA
501 AAGGGGCTGT GAGAAGGT AT ATTAAGTCA AAGGGGTGG TGGGGGGAAG
551 ATAACAAAAA TAAAGGAAA AGAACAAGGA AAAACTABAA AAACAAGCTTC
601 AAAAAAAGGT TTTCTTGA CAAGCTTTCA CATTTATTTT CTTAAGTCTC
651 GAGGAGGACT ATTTGAAGAG AAGTGTCTGT ATAGCCTGAG ATTCTGAGC
701 TGCGAGCCTT TGAGAAGGGA GAAGGAAGAG GACTCTATT CCGCCTTTGA
751 ACCCTTTTCT APCCTATATG AGATGGCTCC TTASAGATGG TGGAGGAGAG
801 GAGAAATGTG CTAGTGTCTT CAGAGATGA GTTGGATGG AGGTACAGG
851 CAAGGCTGTG AACCTTGGC CCAAGCAGG TTTGTCTCT TCCCTCTGGC
901 GTTCAGGCTC AACTATTCA AACCTTTTC TTCTTTTGA CTAGTCTCTC
951 GGAATCTTGT GCTTCTCAT TTTTGGCTGT CTCTCTCTC TGTAGTCTCA
1001 CCGGACCTGT AGACCAAAAT AACCTCAAT CTTGAAACCT TGTAGTCTCA
1051 CAGGCGAGAA CTGGGCAAGT TGAAGGAGG GGGGAGCTTT CAGTCTTCTC
1101 CAGGCGGCTG CTCAAGCTG CAGAGGAGG TGGGCTGCA TTCACTTCTG
1151 GTTTCGGCAG CCACTCTCTG TGAAGGAGG GATCTGAGG GCACTCTGAG
1201 GTTAAATCTG CAGCTTAGG TGTCTCATTG TCAATCTTCA AACTGCTGAG
1251 CAGGAGAGAG GTTTAAGAT ATCTCTCATT AAGAAATCTT TTCTCCACCT
1301 GTGTTTCTCT TGAAGTAAAG GTGCTTAGG CTAATGGGGG GTGAGGAGCT
1351 CAGGCGAGGA GCTCTTGGC CAGGCTCTGT AAGATCTCT TCTCCAGAGT
1401 AGCTGTCTGT CAGTGAATTT TGAAGATTT TTGGCTGGCT TCGGCTAAAG
1451 CAGGCTTGTG TAATCTGAG TGTGGGGGG CCAAGCTA CAGAGATAAG
1501 AGAGCGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
1551 TGTGTGTGTG AGGGGGAGAG TGGGGGATA GAAACAGCA CTTTTTTTTT
1601 NNNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NGTGTAGCGG
1651 GAGAGGCGGG GAATAGAACG TCAACCGGG GGGAGCGGG AGCTCTCTTT
1701 TCTCTCTCTC CTTCTAGGAA AAGCGGAGCA ACTCTCTCAT CCCCCCTCAG
1751 CATTCTCTTA CTCTCTTGG CAGCGGAGG GTTAAAGGCA TTTGCACTGG
1801 GAAATTTGGC CTGTTTGGGA GAAGAGAAAC AGATCTATG CCGTGTGTGAC
1851 TCGCGGGGGC CTTCTAGGAG CAGCGGAGCA GTCTCTCTCT TGTCTCTCTC
1901 CCGCGGGAGC TCGCGGAGC CCGCGGCTCT CCGCTCTCTC ACGCGGAGAG
1951 CCTCTCAGCC GCGGAGCTCT GTTGGGAGG CCGCTCTCTC AGGTGAGGGG
2001 AATGAGTTGG ACTCTGCTGG GGAAGGCGG TGTCTAGAG TGTGCTAAT
2051 GGAAGAGAGAA TTCTGCTTTC AAAAGAGGAT GTCTGCTCA AAGAGGCGGG
2101 TCGCGGCTGT CCGTGGGCTC TAGCGGAGGA GAGATCCCCG GGAGAACTCC
2151 AGAGCTTCTC GGGGAGGCTC ACTCTGAGGA CCGGCGGCA CATCTCTCTC
2201 TGTCTCTCTC ATCTGAGGAT TGAAGATTA TTTCTAGGA CATTCTCTC
2251 GAATTTGA TGAAGATTA ATCTGAGGAT TTTCTAGGA CATTCTCTC
2301 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2351 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2401 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2451 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2501 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2551 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2601 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2651 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2701 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2751 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2801 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2851 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2901 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
2951 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA
3001 TTTCTAGGA CATTCTCTC TTTCTAGGA CATTCTCTC TTTCTAGGA

```

FIGURE 3, page 1 of 173

2151 AGCTTACCTA CAAATTAAC TGTATATCG TGCTTACAA TCTATGTGGA
 2201 AATAGTAAAT ACAATCTGTG ATGTAAATTA ATAACTCTT TATATTAAGA
 2251 ATTCTCTTA CTACAGAAAA CTTCAGGAT CTCCTAAAT AAAAGTAAAA
 2301 AGCTTCTAT CATATTACT GTGTGTGTAT AAATATTTT GTTCTGGAA
 2351 ATATATATTA TGAATATGT AATCTTTGGC TTGTGCAAT GCTATTAAT
 2401 ATGAAGTAT TTCACTACTA AAGCTAGTTG CCTTTCTTTT TAAATGATG
 2451 TGTCTAATAT GCTAAGGAGA GATAGGGAGA AGCTAAAGAA TAACTACTAC
 2501 TTTAGAAAG TTGTATTCAA AGGGCCAAAG TTGAAATGAG AAATCTGACA
 2551 ACTACAGAA GTTTACTCT TTACCTTGA AAATATTTAC ATTAATTA
 2601 AATGATATG TGAATATAT AATCTCTAGC TCTTGTCTG AGTCTCTACT
 2651 AGGAACCTCT GCAGTTCTAG GGCTTACAG CTAAGCTATT TGCTGAATTC
 2701 TATCTTCTCA ATTTTAAGAG TGCTTCTTA ATACTTCTG TTAATAATTAC
 2751 TTAGGATCAT TAATCTCACA TTAAATTTT GCTGGGTTTC TTCTCTTTC
 2801 TTTTCTCATA AGGGCTGAG AGATTAATA TTTGGGGAG CACTCTGATT
 2851 TCAGAGCTCT TATTATGCAA AATTTCTT CAGTGTACG GAGAAATATT
 2901 TGAAGCTTT TTCAAGATG CCATACTCTG TTTTATTAC AGATAAAAA
 2951 TTTATCATTC CAAATCTAG AGTCTAGAAC TCTGCTATCA TTTATCTCAA
 3001 CGATGGGTTG TGTGATGTA CTCTTCTCT CAGGCTAGAT GTCTATGCAA
 3051 AGCCATGCTC CTCTGATTT CTCTATGAG CCGAGAGCAA GAGCTATGAT
 3101 ATTGCTCAAA TTCTCTAGG ATCTCTGAG TCAAGAGAGA GAGAGTCTGA
 3151 GGTCACCTAC TATCAAAAA ATCTTAAAT TCTCTATTI AGGATCTCTT
 3201 CTATCTGAT CCAATTAATA GAAATTTTA CTAATTAAG TCTATATCTA
 3251 AAGAAGCTCA AATCTCTAA TTCTAGATAT AGCTTTCTA TATACTATT
 3301 TGGGATCCAA CATATATGCT TATCTGATT AGTCTCTCT TAAATAAAT
 3351 TTTTCTTTTG AATAAGCTA CTCTATCTC TTCAAAAGTA CAGTATCTA
 3401 ATGTCTCTGA GCTTAAATG CTATTAATCA GTCTTAGATG CTCTTTCTT
 3451 TAAGGAATTA GAGAAATAG AACATGATG TGTCTGCTT GGTATCTATT
 3501 TGGTAGGCTA AATACTAG TACAGTCTTA CTCTTTTAA CTCTTAAATA
 3551 CTCCACAAAG CAAATTTATG TTGAGAGCTA TATCTTAAAC TAACTATT
 3601 ACAGTTATGT CTCTTCTCT TTTAGCTTA GTTGATACTC AATCTCTCTT
 3651 GTTCTTTTG CTCTCTCTA CAAATTAAG GATGATTAAT AGGAACTTTT
 3701 AGCTGATCTC AGTTAACTG TGTATATCA AACATAAAG GCTCTTTATG
 3751 TAGTCAAGAT TTGCTCTGAA ATAGAAATG TAGAAAAAT TATGATCTG
 3801 TGGAGTTATT AGTATGATG TTCTAATTA CAGCAATCT GGCATCTTAA
 3851 ACTTAAGCTC ATACCTCAAC TTCTAGGCTA ACCTCTCTG TCAAACTGCT
 3901 TATGAGAGCT GTAAGATTA GACTAATAG TTCTCTTAA AATCTTACCA
 3951 TGTAATAGAT AGGCTATCT TAAATACACA ATATATATCT AATCTGACTC
 4001 ACATATATAA ATACTCAGAT ATGCTATT TAAAGTGTAT ATATAGATAT
 4051 ATATCTCTGA ATATCTATA ATCTATATCT ATATATATCT ATATCTCTAT
 4101 AAAAAATGAT ATTTGCTTAG GGTCTAAAGG TAAATTTACT TTAAAAAT
 4151 GAATGTTATA GTTAATTTTG TTGATCTTC ATCATCATCT ATTTCTTTT
 4201 ATTCCACTAA CAGAAATTAC TGAGGCTAG GGGTASCTGT TCAGATTTT
 4251 AGAAAACTCT TAAGCTTTTG ATAAATATGT AGTGTGCTAT AGCTATATC
 4301 ATATAATGAT TCACTATTG GTATCTAGA GAGAAAAAA GATCTAGCA
 4351 AAAAGCTTT AGCTTACTC TACTCTCTT ATAACTAT GATATATTA
 4401 CAATTCTAA TTAATCTATT TCTCTTAA TGAATCTAG TCTCTACAA
 4451 ATATTAATA AAAATCTT TATTAATCT TTAATCTT TCTCTAAAT
 4501 TATAATAA TATTAATA ATATTAATA TCTCTTAA TCTCTTAA
 4551 TCTTTTCTT ACTTTTAAAT CAGTATCTT TCTATATAG AAATAGCTTA
 4601 ATTCTTCTT TGTCTGAAA ACATTTATG GATTAATCT TCACTAGCCA
 4651 AATGTAACT ATCTCTTTG ACTATCTGAT GCTAACTAT TGGCTTTT
 4701 GAATAATTT AATCTCTGAC ATTTTCTCT TATGATAT TTAATATGAT
 4751 GCTAACTAG TCTATATGT GGTAACTTCA GTGAATCTTG GTCTCTCTT
 4801 GCTCAATAT TTTCTAGAC CATTCTAGG ATTTTCTAA CTCTTAGAAT
 4851 TTAATATAT TATTAATCTG GATTTCTAA ATTTCTAA TATTAATGAT
 4901 ATTTTCTAA CTCTTTTAA GTAAATTA TCTATATAG CTAAGTCTT
 4951 ATCTCTCTT TCTCTCTCTT TCTCTCTCT TCTCTCTCT TCTCTCTCT

FIGURE 3, page 2 of 173

6401 TATTTTSTTT TAATTGATAT GAAAAATAT AGAAATGAT TCAAGCATTT
 6451 TCTTTTATT TAATATTTTA AGAAATATAT TAGTTTGAAT GACCTTTTTA
 6461 AAGATGATG ACATAGTCAT ACTTTTTCG TTTAAAGTA ATAACTTGT
 6451 GTTTTGTG CAGTTTCAGA TAACTTGGAT AGAATTTTA STTGTGCTTG
 6401 GTTTTATTTA TATGACAACT ACAAATCAG TTAGAGCTTA PGAGATACAA
 6451 ATTCTTGCAT AGTCTCATCT CTTAAGATA AGACTACTT CAGCTACTCT
 6401 ACATTTTATAA AAGCTGGAAG GAGAAAAATG AAAATACCA ACATATTTGT
 6451 TGGTTTGTTT CTCAAASTTT CGSTTAATTG TTATTAITGA TGGCATTGAC
 6401 TTTTGAATTT CTGATTTCT TAAGTGATA CATAAATG TTCTTTTCT
 6451 TATTTTATAT TTAGCATTTT AAAAAATAT GAAGATGAT STAATAAGCT
 6401 CAATGAACAA ATTAACAAAA ASTTATATA TTCTTTTCT ATTTCTTCTA
 6451 TTTGCTTTTA CTGAGAGT AAAAATACCA CCAAGGAT ATTTGGA
 6401 GCTTGTTCG TAAAGTGGCG CAGAGGCTT ATAAGCAAT TAAACCTG
 6451 ATCTATGCA TGAATTAACA TTAGAGGAT CATGCTGAA CTGATGATC
 7401 GTTATTTTGA AACACCATCT CTAATATGCT TTCTGTATGT GATTTGCTA
 7451 GGCACAAATTA AACTTGTCTT TATAGAAAT ATCAATTTT AAAAACTAG
 7401 TTATTTGCA TTAGGATATTT TACAGCTCT TCTTTTGAAG ATTCTATTTT
 7451 ACAGTTTAA TATTATTTT APAATCATC CTGGAAGT GTGAAGTAT
 7401 GCTTGAAGTG ATAAAGCTGT AAATTTTCT ACATAAACT CTATTTATAT
 7451 AAACTATAA TTATGCTATG ACTTATATAA GATGGAAT GTATTTTAA
 7401 AGCATAATAC ATTCATTTAA AACACCTTT CAGCAACAAA GATTAAAAA
 7451 TAGCAAGGAC TTAGTTTAT AACTAGTTCA TACTTTTGA TGATGCAAGT
 7401 GGAAGGAAA CAGAAAAAA AATATTTTA GTTAGCTCT ACAACTAAGT
 7451 TTATGCTCA TTTGCTTTG ATTAATCAC GGAAGGAGG TAGTGTATTT
 7401 AAGTGCTAAA CCGCTTCAAG TATATTTACA AATGTGATTT TGACCTTAA
 7451 TTATCAAGCA ACTTTTAAAT TTTGAAAAA CAGAGTAAAT TTCTGCAAG
 7401 AAAATAAAG CTTTACTTCA CTAGCAAGG ATGACTTAAA ATATATTTAT
 7451 TTTTGAAGTC AGAGGCTTCT TTTATTTTGC CATTATGTTT TCATACAC
 7401 TATGCTAGCA ATTTTACTAA CAGATCAGAA ATGTATGCT CTACTTTCT
 7451 TATCTTCAAG CTGCTTTTAA AAGATGAG AATGATAAG GATGAGGGA
 7401 AGTCTTGGC TAATCCAGTC ACATATCAGT AAAAACTT ACAGGTAAGT
 7451 TTTGATTAAG TAACTCAGA AAGGCTCTG GTTGTAGAG ATTGAATTTA
 7401 CTATGTGTGA AAATATGTC GAAAGGCTT CTAGAAACAG CTGTCTTTT
 7451 GTGAATCAAG GTGAAGATGT ATATGAGTC CTTCTCTCT CTCTCATTA
 7401 ATGTACAGG CACTGTAAAG ACAGTAGGAA CAGATACAAA GGAAGATGA
 7451 ACCTGATCTC TGTTCAGG AATTTGAT ATCAGAGTGA CTAAATTTCA
 7401 TTTTCACTCT CTAAATCTCA GTTGTTTTTA TAAATTTAT TTTAATGAA
 7451 AAGAGTATTT TGGACTATG GTTGTTTAAT TGCATAGAGA ACCTGCAAAA
 7401 TTTATTTATTA ATTGCTATTT TCTTCTAT CCGCAATTT AAAATAAACA
 7451 TGGTTATGT TATCTTCTT TCAATTTGT CATGTATGA TAATAATTA
 7401 TTAAGAAGC AATGAAGTT AGTTAAAAAT TTATTAGTAC AAACAGAAAT
 7451 TTCACAAAAAT TGCATAATAG CTTTATATAA GTTATATGCT ATGTAAAAA
 7401 TTCAGCTCTC TTAATTTCTG GATTGTGTAG AAGAGATACA GATGGTAGCT
 7451 TTTTACAAA CAGCAAAAAT ATATTTTATG TGTCTTAAAT TCAAGCAATG
 7401 AGAAATATTT TCAAAATGA TCTTCTATG AGTTTCTT GGTATTTAT
 7451 TTAATTTTCT CTTTATAGAT TTTTAAATTT TATTAATTT ACTATTGCAA
 7401 TAAATTAAT TTAATTTT ATTTTCTT ATTTTCTT ATTTTATAT
 7451 ATTTATATA CTTTATTTT TATTAATTT TTAATTTT TTAATTTT
 7401 TTTTATAA AATAATTTT CTTAAGAAAT TTTCTTCTT AATTTTGA
 7451 AATATTTTA TATTCTCTT AAGTAAAAAT AATGCTCTT AATTTTGTG
 7401 TGAGCTTTGT TTATCAGTCA CTTTTCACCA TTCACCAAA TCACACCTCT
 7451 AAGAAGCTCT GGTACCAAA AGAAGGCTG TTGTCTGCA GCTTGAGAGA
 7401 CAAATTTCTA CTTATTTTCA CACCAAGGT CCTTGAAGG AGSTGAGTTT
 7451 AGGATTTGAT GAACAGGATA AGTTTAAAG GAGAACTTG CTTTACTGG
 7401 CTTTAAAGT TTTTCTGCT GTTTTGTGCT TGTCTTCTT TTTCTTCTT
 7451 TTTTCTTCT CATAAATAA TTTTAAAT TATTTTAA AATTTTCTT
 7401 TTTTCTTCT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT

FIGURE 3. page 3 of 173

9451	GAATTAAGTSA	AAGTAAATTT	TATATATTAA	ATASTGUSTA	CAAGTAATCT
9501	ATAAAATATA	TATTETTATT	ATTTTCTTTT	TGTCGAAATA	ACANTGAAGC
9551	CCAGAGAGAG	TGAATAATTT	GCACAAATTC	ACATAGCTCA	TACACAATGG
9601	AGTCTTASCC	CTTAACAACCT	TTGTCTTACT	CTTACTCGAT	GTACCTATAT
9651	TAGAATTACG	CTTGAAAACT	TTTTTTTATT	CAATTAAGTA	GGATACCTST
9701	TGGCTTCAGA	ATTGAATTCA	CTTGGGATTT	CAAGTATTST	GTGTCTTAG
9751	TCTTTTCTTA	CTGTGATAAC	AAAATACTTT	ABAGC33GTA	ACTTATAAAA
9801	AATAGAGATT	TATTTCTCAC	AGTTTTTGAG	GCTGG3AAG	CCAAATACAA
9851	GSCATCAGCA	GGTCTCTGGA	CTGGTGAAAG	CTGGCTCTTT	GCTTCAAGA
9901	TGCACTTTT	TGCTGTGCT	CTCAGATGCT	AGAATG3AGA	AGGCTAAAAG
9951	G3GCACTT	CTCTCTAAG	CTCTCTAAG	GCATTAATCT	CATTCAAGAG
10001	ATGGAGCC	ATATGACTTA	ATCAGATCTC	AAAACTTAC	ACTTCTTACT
10051	ACTCTCATST	TG33CTTGA	GTTC3AATGT	ATGAATCTT	AAGGAACTACT
10101	ACTTTCAAA	CATTATA3ST	ATGTCTAGAG	AAATCTAGCT	GGATCTAGAG
10151	CTCTGATAAC	AAGTAGATGA	ACTTCTTGA	GTTCATCTT	TTCATCTCT
10201	ACTTTCTTT	ACTGATAACT	ATTTGGAGAA	TAPAATCTAT	GTCTCTAG3C
10251	TTATTGAGT	TCTTCTCAT	AATAAAGAAC	GCAGCTTAT	TTCTCTGATG
10301	CTTTCCATAA	TCTGCTCAAT	AAATATCAAT	TAGTTAATA	TATCTCTAGC
10351	TTCATTTCT	CCACAAATCT	TATGATCTAG	TCTATCTTGA	TGCTCTAGAG
10401	TTCTTTAAAG	AAGTAACTTA	TTTTTCTTCT	ACTGAGCTT	TGTTTATCT
10451	TAGAAAGTT	TCTCTTACT	ATAATGAATA	TTTCAAGAG	TTCTTAAATG
10501	GATTGCCCTT	CTCTCACTTT	CTCAGCCGAA	AGAACTTAT	ATCTCTCTTT
10551	CAAGAGACAG	TCAAAAAGCT	TCTCTGTGAA	ATCTCTCTG	ATCTCTCTAG
10601	TATCTGCACT	TCTGCTCTCT	CATAGCACTT	GGTCTTAGG	TCTAGGCTAG
10651	CTCTGAGAG	CTGCTCTT	TTATTACCGA	TTATTCTAGT	TAATTTAGCT
10701	TATTTTTAGG	TTATTCTAGG	AAAACACCAA	CTCTTATTA	TTCTCTCTCT
10751	CAGGATATAT	GGAAGGCTAA	CTAGTACGAA	CTGAGTCTAG	TCTTAGCTATT
10801	TACTTAAAGA	ATGAAGAGAA	GATGAAGAA	CTGAGTCTAG	AGTTAGAAAA
10851	AAAAAAAAAA	CAGATAAAGT	TAACAAGATC	TGGGCTAAG	TGCTCTTATAG
10901	GAAAAGTGTA	ATGCTCTGCT	TTTTTTCTAT	TTTCTTAAAG	ACACTCTCTAA
10951	AATATTAAAA	ACAATTTTTA	CCATAATTTT	ATTAATCTCT	ATATCTCTCT
11001	TTTAGTAATC	TAAGATATTA	AATCATCTCT	ATAGCTCTGA	ACTATATGAA
11051	TATGAATAGC	TAGAAAAATA	TTTAGTGAAC	AGTTGGAATC	TATCTAGCAG
11101	AAATTATTTA	CTGCTTACT	AAGTCTCACT	CACTCTCTAG	CCCACTAAG
11151	ACTTACCACT	CTCTCTCAAG	ATCTCTAATA	GGCAAGCTCA	GATTTCTCTT
11201	CTGTTCTTTT	CTAAGCTGAT	TTCTATCTCT	TGGTCTGAG	AATTTATACAA
11251	CCAAGTGAAT	ATGTTACAGA	CTCTATCTCT	ATTTTATATC	TAGTCTCACT
11301	ATTTATCTCT	CCATCTCTCT	TTGAAAACT	TTAATCTAGT	ATGAAGCTCT
11351	ATTTCTAGAG	TATACAAATA	TGGCAATCTA	AAATCTAATA	TGATAAAGTT
11401	AGCTGATTTA	TCATTAACTA	TTATAATCTG	CAAGTGAATA	TTTTCTCTCT
11451	CTTTACTGCT	CTGCTCTGAT	TTAGCAATAG	TACTGAACTA	CCAAAGAGCA
11501	ACAGAGTCAG	GTAGCTATAA	GGCACTAATT	ATAGTAGTGA	GGAAATACGT
11551	CTTATTACTG	AACAATTTAAG	AAAGTTAATG	GGTTATGAGA	AAACAGAAAT
11601	CCAGCTCTCT	ATGGCTCTGA	CTGAATCTCT	CATAATCTCT	GGCTCTCTCT
11651	CTTTAATCT	ATATGAATA	TTAATTAATA	AAATGAATA	GGCTCTCTCT
11701	ATGATAGCT	GAATCATGCT	TGAAGCTCT	TTATGACTCT	TTCTCTAGCT
11751	AAATTAAGCT	TGCTCTCTCT	AAATCTCT	TTTTCTCTCT	TTCTCTCTCT
11801	TTTCTAAGCT	TTCTCTCTCT	AAATCTCT	TTCTCTCTCT	TTCTCTCTCT
11851	TTCTCTCTCT	TGCTCTCTCT	AAATCTCT	TTCTCTCTCT	TTCTCTCTCT
11901	CTGCTCTCT	ATTTCTCTCT	TTCTCTCTCT	CATTTCTCTA	AAATCTCTCT
11951	AACTAGACTC	TGCTCTCTCT	AAATCTCTCT	CTTCTCTCTG	CCAGCTCTCT
12001	TTTCTCTCT	TGCTCTCTCT	TTCTCTCTCT	CTCAGAACTA	AGTCTAAGAG
12051	CAAGTGGACT	TTCTCTCTCT	TGCTCTCTCT	TGTTCTCTCT	TTCTCTCTCT
12101	ATTTCTCTCT	TTCTCTCTCT	TTCTCTCTCT	TTCTCTCTCT	TTCTCTCTCT
12151	TTCTCTCTCT	TTCTCTCTCT	TTCTCTCTCT	TTCTCTCTCT	TTCTCTCTCT
12201	ATATTGATTT	TGAGAAAAAT	GTAATAATCT	CATGAGTTCT	AGAATAGTTA

FIGURE 3. page 4 of 173

12601 TCTGGGTTTG CTAAAAAGTC TATATATACAT ATCTGTTTTC TTTAATAATA
12651 ATAGTAATCA TTTGATGTTT AGCTATACAT TTATTCAGG GGTITACATG
12701 CAAGATATGT GTCTTTTACA TTTTAATTTT TTTGGTATA TGGAAATGAG
12751 ATCAGTCTCT TACTCAGTAT AGCTTTTCTG TCAAGTCTT AACATTGAST
12801 TCCAACTCAG TCACTGGTTC TGCATATAAA TTGCTTTCAG TGAATTTTAT
12851 GACAGTTTTC GAGCAGAGG TTATCTCAT TACAGATAA GTTAAATTGA
12901 GTTTCAGAGA ATTAAATGAC TAATGATCAG AGAGCAATGT GGAATGTG
12951 TTTAGAAATTT ACATTTATCT ATATTGCGA ACTCTACAG ATTGCTCCA
13001 AATGATACAC CTCTTAAACC TCAACCTAAT TATTCTGTA TTTCTAGTT
13051 CCAATTTTCA AACATAGATT CTATTGATTA TCCAAGTTT AAATCTGTT
13101 AAGTTAAATC ACATCAAGA CTGAATAAAG CATGGGATTT TGAATTTTA
13151 ATAGAAATTT ATCAATCAAA ATCAATATCA GGCAGATCT TAGATTTAG
13201 TAGAATGAGG ATAGCTAGTA TATGCTTATA ATCTGATCA TTTTAAATGG
13251 CATCTCTTTT TACTCTTAAA ATCTCCCAT TTTGACTAT ATATGATAG
13301 ATGACTTAG ATTTTGGG CATTTTGGT TAAGGGGGG TCAATTTACTA
13351 TATGTTTAST CTTTATACAC ATAGTCAGGT AGAAAAATCA TGGATATT
13401 TCAATCAGTA GCAAGGAT ATAGGCTGTC GTTTTGGGT CTGCTTCCA
13451 CAAGAAATTT TTAATTTCTG GCAAGATTAT CTGATGAA AAAATTCAC
13501 ATAGTATTT TAAAGGAAA GCAATAATAT ACTGCTGGA GAGGCTCTGG
13551 TTTATTTAAA ATGCTTTTAA TTTTCTATAT TTTTGGTAA ATCTCAGAT
13601 CATCTCTCTT TACACAGTCT ACTATCTTAT TTTCTGAGG TCTCTGATA
13651 GCTCTCTATC CTCAGGATCT CTCTCTTAA CCAAGGCTT TCTCTCTCT
13701 GAGATGCTT TAATGTTTCT TCTCTGAGG GTTCTGAGG TCTCTCTCT
13751 TTTTAAAGTAA ACTCTGATG GCTTCAATAT CAGCTCATTT TTAAGGCTCT
13801 TAAGTCTCTC AGGCAAGCTT CTCTCATTT CTCTGCTTT TTTCTTTTCT
13851 CTATGGAAC ACTTATGAAA TTTGCTGCTA GTATTTGTT TCTATCTCT
13901 TTTTCTCCAC TCCATGTTGA ACATTTTGA GGGATTTAT AAGGCACTTA
13951 TAAAAAGTA GAAGAAATGG GAGAGCAAG AACAGAATTA CGAGAACCA
14001 GAAATACAGC CATTTACAGA TGAATATCTG TGAAGGCTG CAGAGTCTGG
14051 AAGATATCA TTTATGATG CATTCACAT GTTCTGCTG TCAATTTCT
14101 GTATGAGAA TGGTGAATAT CAATCTCTAA CATGCTTAT TAACTGAGAA
14151 ATTAATTTAT AACTTGGTGG CATATGCTTT ACATATTATA AAGCAATGTA
14201 TTTTAAATCT TAATAATCTG TAATCTATTA TAAAAACA TAACAAATCA
14251 CTCTCTCTAG TTAGCTTAGA AGGAAAGG TGAATGCTCA GAAGAGTTCA
14301 GATACATCTC TGATGCTAAC ACATTTGACT GATTTCTAT GAAATCTCAC
14351 AAGTTCAATA AAGGAAAAAA TATCTCTACA TGTCTCTATA ATAAATATAAG
14401 CATGTTTACA AACCATCTCA GCTCTCTCTG CATCTCTCA GTTAAATACA
14451 CATGACAAAA TACTTATAAA ACCTTGGCAAT TATGCTCTAT TATTTTCTCT
14501 CTATCTTTCT CTACACATTT GAAGCAGCTT CATCTTACA CTGCTCTCAC
14551 AGCAGTTTAT ATTCTTTTCT CCAAACTTCT GGTCTCTGCT TGACATTTGA
14601 AGCTCTCTAT GATATCAGAA GACCTTCTAT CAGTCAATG CTGATACAGG
14651 ACTTCACTAC TTCAACAAGG ACTTATATCT CTACTCTCTG TCTCTCTCA
14701 AGTGATTTAA CTTCACTCTT GAAACATTAG AAAATACAGA GAGAAATAG
14751 AAAAAAAGC ATAATCTTAA TACTTAAATA TATCTCTG TAAATGATG
14801 GCTCTCTCT CAGTATATCT TTTTCTATTA CAATACAGAA ATATCTCTCT
14851 TATATCTCT TTTTAACTAG ATATCTCTCT TATATCTCT ATATCTCTCT
14901 GATATCTCT TTTTCTATCT AATATCTCT CTCTCTCT CTATCTCTCT
14951 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15001 AATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15051 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15101 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15151 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15201 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15251 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15301 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT
15351 TATATCTCT TATATCTCT TATATCTCT TATATCTCT TATATCTCT

FIGURE 3, page 5 of 173

15751 GATAATGAAA ATTATAGATA ATGAAAGAGT TTTTCTTGAG TAGTTTTTAT
15801 TTGAATATAC ATATATACAT TGAGATTAAA ATATAGTCTC TCCCTCTCTC
15851 TCTACATATA TATATATA AT TTG CTGAGA TGCAACTGA TGCCTAGGAA
15901 AGTTAGCAAA GTGATAATAA ATAAACAATC TTCTAGGATA TCAATTAAGA
15951 GAAGTGAAAT TCACTTATGA AATGTCACCT ATAGTGAAT CAAATGCTCA
16001 AAATTACATA TGATACGTGA GGAAGATAT AAGCAACAGA ATTATAACAG
16051 AATATCAGAT AAAATGATAA ATTTATTGCA ATATAATAGT ATGAAATGA
16101 ATGTAGGGAA AGATTATTCT CTTCCTAGGC TGCCCTATTI AACCAAGACC
16151 TGATAGCTC TGGTAATCTC ATCTTTCTAG CTCTTACTCA ATTGTAGGT
16201 CTCTCTCTCA GGTCTCTCTT ATAATGAATC TCACTTAACG AAGGCTCACT
16251 AGAATTTATG GATTCACAGA TTGCTCTCTC CAGAACTTGC CCGCAATGA
16301 AGTACTACAC AAAAATGCA AATAATGATC AGAACTTCAA CTGCTCTATT
16351 AGCTTCTCAT TATTCATTCT AAAATGCAAG AACTTCTTCT TTTCTAGGTC
16401 ATCTTTCTCA GATTAAGAGA AGGTCTCTCA CTGAAATGTC ATAGCACTCA
16451 ACATTCTTTA TTTTAAATAT ACTCCTCTCT TATACTCTGA GTTACACAACT
16501 ATTTTCTCTT AATTAATGCT TCGCTCAATA AATTAATGTA TGAATTTTCT
16551 TCTGAAGAAAT ACTTCATCTC AAAGATTTAA TACTTTTCTT TATTAACTGA
16601 AACTTTTCTA AAAATCTCAAG AATGCTCTAT AGAGCTTTTA AATCTTTTCA
16651 AAGTAAGATT TTAATAATCT ATTCCTGATT TTTCTTCAAT ATTAAGAAAT
16701 AAAATCTAAT TTTCTCTAGG CTAAATCTCT CATAAGAAA TGAAGATTGA
16751 TTTCTAGCTT AAAAGATAAA AGTATTTTCA TACTTACTTC TATAAGCTGA
16801 ATTAAGAAAT TCTCTCTAAG ATCTAAATTT TCTTTCTCTA AAGGTAATGA
16851 GAGATTTTAT TTAAGATCTC AGGATTTTAA AATCTATAAA TTTAAATAT
16901 AAAGATGAAA GATGAAGCTC GCTCTTTTAA CACTTTTAT TGGATCTGA
16951 AATCTCTGGA AAAAGATAAA GAAATCTCTA GATTTGAATT TCTATCTCTA
17001 GAGAAATTTT GTGCTCTAAG TTCTCTTAAA GATCTCAAGA AACATCTGA
17051 AAAAAGAGCC AGAGACTTTT TCTAAAGCTA ATGACATTAT TATACTATGA
17101 AGCTAATAAA AGAATATGTT ATAGTATAAC CAGCTAGGCT CTCTCTCTGA
17151 CTAATCTTCT TCTCTCTAGA ATGGAATTAAT CAGCTCTCTC TCAATCTCTA
17201 ACGCACTTTA ACTATACTCT AAGGAGAGAA CAGATCTCTG GAATTTTTAA
17251 ATTTTCTCTG ATTTTCTCTT CTCTATTTTA CACTCTCTGA CACTATCTC
17301 TTGCTAATTA TTTCAAGGAT TGGCTTAAT TATCTCTCTG CAGCATATGA
17351 AATCTCTTAA TTAAGATATA TTAATAATA CAGCTCTCTG TGAACATTTT
17401 AAATAATAGT ACTAATAACT ATCATCTGAG ACTTACAATG TCACTATACT
17451 CTCTTAAAGT CTCTTTTCTT TCAATTTTAA GATATCTCTA AGACATAGAT
17501 ATTTTATCTT TCTCAATTAAG AAATGAGAAA GATGAAGTTT AATACTTTCT
17551 TCAACACTCT AAAAGTAGTA CATAGCACTT AACTCTCTAG TGCAGACTCT
17601 CTCTTTTCTA AGCTCTCTCT CTCAGCACTC TACTCTCTCA CCTCACTCTA
17651 CTCTCTCTCT CAGTATAGCA ATGACACACT CACTACACAC ATATCTCTGA
17701 TCAAGCTCTC CCTCTCTCTA AAGCTCTGAA TCTCTCTCTA TTTTCTCTA
17751 TTAATCTCTT TAACTCTCTA GCTCTCTAAT CTCTCTCTCT TAAATCTCTA
17801 TAAACATCTG CCTCTCTCTG TACAGGAGTG CCGCTCTCTG CCTCTCTCTA
17851 CTCAATCTCT TCTCTCTCTA GAAGCAACAG GCACTATAAT ACCTCTCTCT
17901 CCACTCTCTC GTAAGCTCTA AAAACCTCTG CTATAGGATG ATCTCTCTA
17951 CATCTCTCTT CAGCTCTCTT AATAATCTT TAACTCTCTA TCTCTCTCTA
18001 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18051 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18101 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18151 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18201 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18251 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18301 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18351 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18401 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18451 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT
18501 AATCTCTCTT AATAATCTT AATAATCTT AATAATCTT AATAATCTT

FIGURE 3, page 6 of 173

18901	TGTATTGAAA	GTAAAGATGT	AAAAATAAAT	GTAAAGCTAT	TTTTTGAAA
18951	AAGTATGTAG	ATGTAAATGT	CCAAATATAA	GATCTACAGT	TAAGGTGATC
19001	GTATGATTTA	TTATCCAAAG	CAAGATTCCT	TTTAAAGTGA	AAGAAAGAAA
19051	TTTTTACAAA	TTGTAGTAAG	GGATAGGAA	AAAAACAGGA	CTGTTCTAGG
19101	CAAACTGAA	ATGTAGATAT	TCTGANTAGA	AAATATATCT	GAAATTTTTT
19151	AAAATGATAG	CCATTCTAGA	GTACAGAGTT	TTATGAACA	TTTTTATGGT
19201	TTTCCAAAGC	AGTGAGTTTA	AAAACTTAGC	CACTCATTCT	TGTGATGCTT
19251	AAAATGTTTA	CTGTGTAGAG	AAAGACAGTA	TCTTSCAACT	TGGAGAAATG
19301	AGTCAGAAAT	CTCTTAAAGA	ATAAATGSCA	TCTTTTGACC	TCTTTCAAAT
19351	AAGACTGACA	ACCAATCTCT	GTGTAAATTC	CATGTTGAAG	GTTCCTAGTA
19401	AAGAGAAFTA	ACCTTAACTG	TTTTGTGAA	CATAATAAGT	CATGAGTACA
19451	GGAAATGGA	AAAGGTAAAA	AGATTTGAAT	CATTCTTGAA	TGGCAACAGT
19501	CCCTTACAA	GTATCTTTGA	TTTTGTAAAG	CATGTTTATC	TTGGAATCTG
19551	TTAAATCTTG	GTGTGTGATA	GGGTATCTGT	AGAACTAATT	TTTTCTTTCT
19601	GGACTCTGCA	TTAGGCTTTA	GTATATGTGT	TTAGTCTATT	TGTAATCCAG
19651	TGATAAAAT	AGCTCTGTAT	TGTCTTAAAG	TTTTCTGTCT	TAAAAGGTGT
19701	TATTTAAAG	GGAGGTGACG	CCCTGAAAAA	CTTGGGGCTG	CTAGCATTA
19751	AGCAGCAAT	TATTAAGATT	CTAATAAAAA	CAATAAAAAA	TAATCAATTA
19801	ATTTCAGATT	CTAATATAAA	CTAAATTCAT	TAGTCTCAT	GTATTTAAGT
19851	AGAAAATGAT	GTCTTCAAA	TTCAAGAGAA	AAGTCTAGAT	ATCAAAAAAT
19901	CAAAATTAAG	GAATAGAGAA	TTATTTCTCA	GAGGAAAGTT	AAAGGAAAGT
19951	GATATAGCTG	GTATATTCAT	ATTTCTATTT	TTGCAATCT	AATACAAACA
20001	TAAAGGAAAT	TATCTTTGTG	AAAACTGAGT	TTGTAAACAA	ATTTAGCTTT
20051	TGCAGAGTTA	CAATCTAGAA	AAGAAAAAGA	AAGAAAGAAA	GAAAAACAAA
20101	GTAGGCACT	ATATATCTTC	TCTCTGCTCT	TCTCTTSCAG	ATTCAACTAA
20151	CTTTTCTCTT	TAAATTAAGC	TTGAACTGTG	AGGTCAATTGT	ATGTGATGAA
20201	ATAGTACGAA	GAAGATGCA	CCAAAGTCAA	TGGAGGTATA	AGGAATTATA
20251	CCTTTCAGAC	CTAATTGCTT	ATTTTCTCTT	TGACTTATGG	TGTACCTTTC
20301	ATCTCTGACT	TGTCTAGTGA	AAGTTTATGT	AATAGCTGT	GGGTGGTGGC
20351	TCAGGCTGCT	AATCTAGCA	GTCTTGGGAG	GCTGAGGCG	GGGGATCAGG
20401	AGCTCAGGAG	ATGAGAGCA	TCTTGGCTAA	CACAGTGAAG	CCCTCTCTCT
20451	ACTAAAGACA	CACACAGACA	CACACAGACA	CACACAGACA	CACACAGACA
20501	AGATTAGGCG	GGGCTGGTGG	TGGGGGGCTG	TAATCTCAGC	TAGTCTCAG
20551	GCTGAGGAG	GAAATGGCG	TGAAGCCAGC	AGGCGAATTT	TGTAGTGAAG
20601	TGAGATAGCG	CCACTGCACT	CCAGCTGCG	CGACAGGGCG	AGACTGACCC
20651	TCAAAATAAA	AAAAAATAAA	AAAAAAGTTT	ATGGAATAAA	GAAATACCCG
20701	AAACAAACACA	CTGTAGAATT	TATCTAATGT	CTGGGATGCG	ACATTGCAAT
20751	ATTGTGGGTG	CTTATATTGT	CAGCTGAAAA	ATATTGTATT	TTTCTTTTGT
20801	ATGAACCTAG	ATCATACAAA	AACCAAAACA	CAATAAACAA	AATCCAAAAA
20851	ACAGCAAAATA	GGTTTTCATT	CGGAATTATT	TTCAATTTAG	CTTTTGTCAA
20901	TATTATTAGA	AAAGAAATAG	ACATTATACT	CTTAGTTTAG	GAGGCATTTA
20951	TTCTGTCTCA	CTACTCTGCG	TTTTCCGCCA	ACTCTTTATT	CTAGGGAAAT
21001	ATTGTCTCTG	CTCCAAACTA	AGCATAACAA	GGCAAGGAGT	GTAGAAATCC
21051	TTAGCAACTC	AAAGAAAAAT	CTGTCTTTCA	AGTCTCAAGC	AGATTAGCAT
21101	CTTTCTTTCT	AAATTAAGAG	AAGTAATGAT	CTATATACCT	AAATTTATTA
21151	GTATCATTTT	AAATAAAAT	TCTATTTCAA	AAATACTCT	CACTTACAGA
21201	AATTTGAAA	AAATTAATA	ATGAAATTTT	CTAAATCTTT	CACTTAATTT
21251	CACTATCTTT	CTATTAATTT	CTTATTTT	CTTAATTT	CTTAATTT
21301	CTTTGCTTAA	CTCATCTTAA	TACAATTTCT	TATTTATAT	CTAATTTT
21351	ATTTTGTGCG	GCATTTGAA	TTTATTTGCA	TAGTTACAGA	CTTTTCAATTT
21401	TTAAATGCTT	CAATATTTTA	TTTTCTAATA	ATAAGGAAAT	TCTTTAATAT
21451	AAACACAAGT	TAATTATTTA	GGCAATGTTA	CAAGGATACA	ATACTATTAT
21501	CTAATAGACT	CTATAAATTT	TTCCAATTTG	CTCATATTGT	CTTTTAGATC
21551	ATTTGTTTCT	AACAATTTCA	GATTAAGACA	GTATATACCT	GTAATTTTCT
21601	CTATGCTTCT	TTTAATTTCT	TTTAATCTGG	ATTAATTTATG	CACTCTCTCT
21651	TCTCTTTTCT	GACATTGATA	TTCTTTAAGG	GTATAGGTTT	ATTTCTTTCT

FIGURE 3, page 7 of 173

22051 GAAAAATATST TAAATTTTCC GAAATTGATC TGAATCTTTT ACCTAAATTA
 22101 TAGGAACTTA AAGATCATTC AAAAATTTCT ATAAAAATCG AAAAATCTA
 22151 GAATAACCCA AAGAAACATG GAAAAGAACCA CAATTTCGAAG ACTCAAGGCCA
 22201 CCTCATTTTA A AATTAATC TAAAGCATA STAATGATAA CAGTTTGATA
 22251 TCGATATAAT ATAAATAAAT AATAATCAAT CGGACAGGAT AAGTCAAAA
 22301 ATAGATCCAC AATATATGTA TTTAATTTTT GACAAAGCAC CAAAATAAAT
 22351 CTTTTTAAAC AATGAGCTAG ATTAACATGA AAAATATATG AGAAATAATA
 22401 AATATTCAGC CTGTGATTAT ACTGTGTACA AAAATTAATT TGATTTAGAT
 22451 TACATACTTA AATATAAAAA GAAAAATTAT AAAATTTTGA GATAATAATA
 22501 AAAATATCTT TTAATCTGT AACAAGTAAA TATACAAAG AAAGAAATAA
 22551 AAAGCACTA ACTATAAGAA TAAAAAATAA TGAATATGAC ATCATCAAAA
 22601 TTAAGAACTG ATAATTTGCA AAGCAATCCA TGAAGAAAT AAAAAATCTA
 22651 TATATGTATA TACACAGTTC CCATTAAGAA AATAAAAACT GATACAGACF
 22701 GATAGATAAT ATTAAATADA TTTATTTTAC AAAGAAATTC TTTTGTACAG
 22751 GTATGTACAT ATATATTAAA TATGTCCATA TTTCTTTTGA TATACATATA
 22801 TGTGTGTGTG TACAATCAT T AATCAAAA GAAACCAAT AAAAAATAT
 22851 GTAAGAGGCT TATTTAGACA CTCACCAAA GAAAGATACA GAATGCTCAA
 22901 TAAAGATATG AAAATTTGCA TATAATTCAA AGTCAAGATG GTATTAAGCA
 22951 CCATAGAAAT AAGTAAAAAT GAAAAAGCTG AACAACCAAA ATGTTCTTGA
 23001 AGATGTGGAG CAAACAGAT TATGTATTTG TATGTAAT TAAAGATTA
 23051 CATTAACATC TAAATATCTG TATATCTTTT TATTAATAAG GTAAATATAA
 23101 ATCTATATCG CCACAGCAAT TTTTCTTCTAG GTCTGTATCT AAGAAAAATG
 23151 AAAATATATG TCCACAAATG ATTATATTA AATATTTATA GTGTTTTTCA
 23201 TTTATATAATG CTTAAATCTG GAAACAACTT AAGAGTTTAT CATGAGCAGG
 23251 TTAATAGATA AATTAAGTGT GGTGTAGTGT AATTAATGTG AATCAATCA
 23301 ATAATAAAGA AAATAAATCT ATTATATTA AATATTTATA GTGTTTTTCA
 23351 ACATGTTTGA CAAAAAATGC GAAAAAATAA AATATTTTGA TTTGATATCT
 23401 CTAATTACAT AAAGCTCAAG ATTAGGCAAA AATTAATTTAT GTTGATATTA
 23451 ATCAAAACAG TAGTTGCTCTG TAGACGGGG GTTTAAGGAT TGACTAGAA
 23501 AGAACACACA AATATTTTGG GGAATGAAAG CATATTTTAC ATCTGATTTG
 23551 GGTATTGATT ACTTGAGTCT ATGATTTGGT TAAATCTAA TACATTTTAT
 23601 AAATTTGCAT TTTACTGTCT GTGAATTTTC ATTCATTAAG ATCACTGTTT
 23651 ACTTTTCAAGG CCAGATTTTT TCTTCTATAA TTAATTTTATC ATTACGAGAG
 23701 CCTAGTAAGA CAATAAATG GTTATAAAGG AATATATATT CTTGAAATTT
 23751 TGCGCTTTTA CTCTTATATA TAGGAAAAAT GTCTGTATT TAATATTCTG
 23801 TTAGTTGAAT TTTCAATATA GCAATTTACA ATTATTTTCT GTATTTTTAA
 23851 AAAAAATTTT CAACATTTGA AGATACTAGA AATATTTTGA TATAGTAGAG
 23901 AGGATTTTAT TTTCAATATT AGGAAATCAG GTCTACTCAT ACTGATAAGG
 23951 CATTTGTTTT GTTTATTTTT CCCTCTTCTG TTTTATTTT TAGCAAGATC
 24001 TCAACAAAGC TAAATCTATT GTTACAGGTT GCAATATTTA CTATCCACAT
 24051 TTATTTTATA TAGCAATGCT GAATCAGAA TTTTAAATCA GTATTTCTAT
 24101 CTCTTAAAAA TATATCTAAA CTAATTGCAT TTAATTTTCT CCTATATTAG
 24151 GAGCTGATCT ATCAAGTTTT GATTAGGGGC ATTATTTTTA TTCTTAAAGT
 24201 GCAATATAT CTATTAATCT CTCTGAGCTG TGAAGGATAG GTATTTTATA
 24251 TGAATTTAT CTCTTATA TTAATTTTAT TTAAGGAAAG GTTAAATTTA
 24301 AATATTTTAA TAAATTTTAA TTTTCTTTT AATAGGATTT CAATTTTATA
 24351 TAAATTTTAA TAAATTTTAA TTTTCTTTT AATAGGATTT CAATTTTATA
 24401 ATATTTTAT TAAATTTTAT TTTTCTTTT AATAGGATTT CAATTTTATA
 24451 CTCTTATATT TAAATTTTAT CTCTTATATT TAAATTTTAT TTTTCTTTT
 24501 GCTCTTATTT TAAATTTTAT CTCTTATATT TAAATTTTAT TTTTCTTTT
 24551 GCTCTTATTT TAAATTTTAT CTCTTATATT TAAATTTTAT TTTTCTTTT
 24601 TTTGCTTTTT TAGTAGAGAT GGGTTTTCTC ATCTTGCCCA GGCTGCTCTA
 24651 GAACTCTTCA CCTCAGGTGA TCTGCCCCGC TTGCGCTCCC AAAGTCTGCT
 24701 GATTAATAT TTTGCTTAT GCACTCTTCA GTAAAGCAGA TTTTAAAGTA
 24751 AATTTTTTTA AATCTGAGCA TTAATTTTAT AATTAATTTA ATTATTTTAA
 24801 CCAAAAGATA CATGTGTGCT ACTTATGTGG TGAATGATCT CTCTTCTTCA

FIGURE 3. page 8 of 173

25201	TTCAAAATCA	CATCTAAAGC	CTACTGACGA	TACAGTTGCA	TTACTTCATA
25251	AGATTTTAT	AATGACAGAA	TGTTTACTCA	TAAGGAGTGC	TTGAACGCGA
25301	TGGTAATTAT	TGTCTATAT	GATAAGCAT	TATAGCTTAT	TGAACAATA
25351	TTTATGTTTT	TGTGGGAAAA	AACATGTCCT	ATTTTAAAT	ATTACTCTGA
25401	TTATTTATAT	TTATTTGTAA	TCTTTAAAGC	TTGCTTASTT	TGAATASAA
25451	GCTAAGTTTT	AATAATTCTT	TTCTCTCTAT	TATAAACAGC	CAGAATSTTT
25501	AGAAATAGTT	TAGGCTTAAA	TATATCTCT	CTTTTATACT	GAACATTAGA
25551	TTAAGATCTG	TGGCTTTTAA	ATTTGAAATA	TTTGAAGAG	TTACTTATTT
25601	TATGAAAAAA	ATATGACTCT	TGGATGAAAA	AGACAAATTT	CATATTTGTT
25651	ACTTACTTAT	TGGGCTAGGC	AAAGTAAGAG	ACAAATGCTG	AGCAGAAAA
25701	AAGGGGAGGA	GAATTTTAAA	TGTAGGAAAA	AAAACTCTT	AGCTGTAGG
25751	AAAAATAAGTA	TGTTTCTTA	GAGTGGAGAG	TGATGAGATA	GAAAACTG
25801	TTCAAAATTTT	CTAATGACA	GACTTACTAG	AAGCTTTTGA	ATTAATASAG
25851	AATATTTTAA	AAGCAGTAAC	AACAACAAAC	ACAAAAAGAC	TCTCTCTTAC
25901	CCCCTCCAAA	AGAGAGCTAG	CCAGTGAAT	CTCTGACAG	CATAAATTTCA
25951	AGAGGTTTAT	TTGAAGCTAG	ACAGAGGAT	GTAGAACTGA	TAGTTCTTT
26001	GCTGTGAAGA	ATATTTATTC	CTTCTGCTCT	TTTACCTTTC	TATTTGAGG
26051	TGAGGCGAGA	GTGATGAAAT	ATTGATAGCA	GGACACCTTA	ATAGTCTCTG
26101	TAACTAAGG	AGAACTCTG	GAATTCATTA	TATCTTATTT	TATGAAATTC
26151	ATATATTGAG	AGTTATAGAG	ATGAAAGAG	TGCTATCTTT	TAGATAACAA
26201	GTCCTTTGTT	CAAACTAGAG	ATTTACTTTT	CCAGAACTAG	AAGCTAAGAC
26251	TGAGGGCTTA	TTTTCTCTTC	CACACTTTGT	CTCATTTGAT	AACTAAGTAG
26301	ATTAAGCTTA	ATGGAAGACA	AGATAAGAA	AATGCTATTT	CATCTCTTGA
26351	GTCATTTGAA	AACAATATTA	TCTAAGGATG	AAATCTCTGA	GAATGACAAA
26401	ATTTTAAGAT	GATAAGGAAT	TAGAACTATC	TATTATGTTT	TATAGGAAGT
26451	GTGCAATG	ATTCTGAGCC	AGAGTAGCTG	CTCTCCAAAT	GACAGCTGAC
26501	TAACTAAGTT	TGCTGCAAG	CTACTCTGAT	ATCTGCACT	TCTCTCTCT
26551	TTTCTAGCTC	CTACTCTCTC	TTCTCTCTCT	TTCTCTTCAA	CAGCTCTTAT
26601	TTTGTAAATG	CTGAAAGCAA	GGCTAAGCAA	TTGCTCAAGG	TGCTCTGCGA
26651	TCAGAACGAG	GATGACATTT	GTCTAATTTT	CAGCTTTCTG	CATTTCAAT
26701	TCTTTATTAA	AAGTCAGAA	GTCTTCAATG	GAATGATTCA	CTTTTCTTTA
26751	CTGTAGACAT	ATTATCTAG	CAGACTTAG	TTTATTTGTC	TGAATATCAG
26801	CTAGTCAAG	AAAAAGCTTT	TGACATTTT	ATGAATATT	GTATCATGTT
26851	CACTTAGAGG	TTTTCTAGGA	AATGAACTTT	ACAAGTTAGT	AGCTCTGCGA
26901	GTAAGTGTCA	ATATACTGA	CAATACAAAT	CACCTGCACT	CATTTCTTCT
26951	AATCTTAAT	AAAGCTAGGG	CATGCTTTAT	TAAATATTTC	TGTGATATTT
27001	AGCTCTGAAA	AATGTAAAG	AGAATACAAA	TATTAAGAG	AAGTTTCTCT
27051	AATGACAGAC	TTAGTAGAAA	TTTGAAGTGA	TTGTTAAAT	TTTAAAGCTG
27101	TGTGAACAGT	GGTTGATAGT	GGATAAAAA	TCAATTAATC	CATCACTGGT
27151	TTTATAGTTT	CCCTAGCAAT	AATTTGGGAGA	GAATGAATGA	TGAAGTGA
27201	GTGCTAACCC	AAAGATTTTA	GAAGTTTCA	CAAGTTTAA	TGAGCTTCA
27251	CAATCACCCC	TGATGGGAGT	CTGCTATTTT	ACAGCTCTCT	TAATAAGTT
27301	TTCTTCCCTA	GTTTTCACTG	ACCACCATTT	TGTACACAAA	TATAGAGGAG
27351	TGTACCTGAT	CAAGGATTT	ATCTGATTT	GCCAGCTTGA	AAAGTACACA
27401	TTTCTAATTC	TTTTCTAGCT	ATGATCTCT	CACTCTCTCT	TGAATTAAG
27451	CTTAAATCTG	TTTCAATTT	CTCTGCTCT	CTTCTCTCT	CACTAAGT
27501	AATTAATGTT	TAACTAAGTA	CACTATTTT	CTCTCTAAT	CTCTAATTT
27551	TAAATTTCT	AACTCTCT	CTCTCTCT	CTCTCTCT	CTCTCTCT
27601	AACTAATGAT	AACTCTCT	AACTCTCT	AACTCTCT	AACTCTCT
27651	ATTTCTCTGA	TGCTCTCT	CTCTCTCT	CTCTCTCT	CTCTCTCT
27701	TTCTTAACAA	CTTTTCTCT	CTTCTCTCT	CATTTGCTCA	CCATTCTTCA
27751	TCTCAAGTT	CCAGGAATCT	TTGATTCTTA	GCCATCCGAG	TGAACTGCA
27801	CTTTGAAAGG	TCACCACTTA	CTCCAGCTCT	ATCTAGTCT	TCTGAAATA
27851	CATCTAGGCT	CACTCTCT	TTCTCTCT	TCTGATAAG	CACTCTCT
27901	TTTTCTCTAT	TCTCTCTCT	ATTTCTCT	CTCTCTCT	TTCTCTCT
27951	ATTTCTCTAT	TATTATTGAT	TTCTCTCT	TACTTTAAT	TCTCTCTCT

FIGURE 3, page 9 of 173

28351 AGTTCAGAT AGGAGTATCT GATATCTCA GTTATTTST ATTAATATTT
 28401 AACTGTAGT CTAATATCTC ACTTTGGGTG TGTITTTTCA GTATGTAGT
 28451 TTCTTCAAA TATTTAGGGG CTTCTCTTTT CTTTCTGCTT CTTGTCTAAA
 28501 TTCTTTCTT TGGGTCTAA TTTCCAGATA TCCGATATAT TATCTCTAGT
 28551 CTGTCAGCTG ATACTTATCA AGCTTTTGAA AAGATGACTA GATAAAATAT
 28601 ATTTTATATT TCAATTTAGT TGTGTGACAC ATGTCTGAC ACACACACAC
 28651 GTGTCTGTA TACTCACATA ATTTAAACAA TTTTCTAAA GCAATCTTTA
 28701 CACTATAATT TATTCTATT CTTTGAAAAG ATAAATACA TGAGCTCCCA
 28751 TATTGAATTC CTGTCTGAC CTTATGCTTT GAGAGGCTC AATTTATCTA
 28801 ATTTCTTTAT CTTCTTATAC TTTACCCCAT CCATCTTTT CAGAAAGTCT
 28851 TACGCTGCT CTTTATCTAT CAGCTGCTAG TTTCTGAT TTTGAGCTATA
 28901 TTTTCTAGT TCAAGTTCTT TCTAATCTAT AAGTCTTT TTTGCTAACTTT
 28951 AGCTCTTAAA AATATCTAAT TCTCTCAAA GATAATTTT CTATGCAAGA
 29001 TGATCTCTAA TCTCTCTCTG ATTTCTGAAAT GTTTCTGAA TATGAAATTG
 29051 TGTCTTTTCT ATCTAGTTTA TAAATCTAT GAGAAATAG CTTATGTCTC
 29101 TATTTTCTAA ACTCTAGAT TTATCTGAC AAACTAAAT AATTTATTTT
 29151 CTGAGGCTTA GATACAACT CTTCTTTTAA TATTTTCTAG TCACTCTATG
 29201 TTTGGCTAAA TCTCTGCTCT TAAATAGGG ACCCTAAAC TTTGATCTAA
 29251 AAATTTGCTG AAGTCTGAAA CTATGCTCT TATGCAAA CTTCTGAAA
 29301 ATGATACCTA ATGAGTCTTT GGTCTTAAAT ATATCTCTT TGTCTTTTAA
 29351 CTTTCTCTCA ATCTGCTCTA GCTTCTCTAT TGTCTTAAAT ATTTTCTAAAT
 29401 ACAATCTTTT CTTCTGCTAT CTTTATTTGA TTTTCTGAT TACTCTAATT
 29451 ACTTCTCTA CAGATTTCTT AAAATTTAT TTTTAAATAA ATCTATGAA
 29501 GAATAAATGG AAGATTTCTT AGCTCTCTG GTTCTCTAT TACTCTATAG
 29551 TATTTCAATTC ATGATCTTAA TGTCTCTAG GGTCTCTAA CATAAGCTCA
 29601 GATCTCTATA TGTCTCTCTT TGTCTCTAAA GGTCTCTAT CTAAGCTCTG
 29651 CTCTCTCTCA ATCTCTCTG TCTATCTCT AAAATCTAAT CATTCTAAAT
 29701 GTCTTATTTA AAAATCTGAA AATTTCTGAA ATAAATAGGG AATATTTTCT
 29751 TGTCTCTCT TCTATTTCTA GGTCTCTGCT CTTTCTCTA ACTTATTTCT
 29801 TGAACATTTA TATCTCTGATA TGTCTTTTTA TTTTAAATTA TAAAGCTAGG
 29851 TTTGCTATTTT AAGATAAAT AGGACTCTAA GTTTCTAGAG CACATATTTG
 29901 ATGATTTTCT AGAATCTAAT TTAATCTCT TTTTAAATTA TGTCTCTGCT
 29951 ATATATCTAG ATTAATCTAA AAGTCTCTCA CATAAAATCA TGTCTCTTAA
 30001 GATTTCTTAA ATTTAAATTA TATTTTCTTA CTCTCTAAT CTCTCTAGAG
 30051 GGTCTCTCT TGTCTCTAAT TATCTCTAAT CAGTCTCTAG CATAAGCTTA
 30101 ATGCTCTCTG AGGCTCTCTA TAAAGCTCTA AGATCTCTGA GAAATCTCTA
 30151 TATAATCTAA CTTTCTCTAT TAATATTTAG TGTCTCTCT TCAAACTCTA
 30201 TGTCTCTATA AACATTTCTT TTTCTCTAT CATTCTCTCT CTATTTCTG
 30251 TGTCTCTATG ATCTCTCTAT GTCTCTCTCA ATCTCTCTAG GAAATTTCTG
 30301 TGACCTCTAG TCTCTCTCTT CATTCTCTCT TTTCTCTCT TCTCTCTCT
 30351 AGAAGTCTAT CTTCTCTCTA ATAACTCTAT TTTCTCTCT TAAAGTCTAA
 30401 CTTCTATTTG TTTCTATTTA TTTCTATTTA AAATCTCTAT CATATTTATG
 30451 ATGTTATTTG ATCTATTTAG TATATTTAT TAAGATTTAG TGTCTCTCTG
 30501 CTTCTCTCT CAGCTCTCTA ATCTCTCTCT TTTCTCTCT CAGCTCTCTG
 30551 CTTCTCTCT CAGCTCTCTA ATCTCTCTCT TTTCTCTCT TTTCTCTCT
 30601 CTTCTCTCT TAAATTTCTA AAAATTTCTG TTTCTCTCT CAGCTCTCTG
 30651 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 30701 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 30751 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 30801 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 30851 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 30901 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 30951 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 31001 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 31051 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT
 31101 TAAATTTCTA TAAATTTCTA AAAATTTCTG TTTCTCTCT TTTCTCTCT

FIGURE 3. page 10 of 173

31501 TCTATCTTCTT AATAAAGG GTTAAATAT GTTAAATTC TATATCAAG
31551 TATATATTTA ATGTTATGTT GTCAATGAAA ATAAATTATCT TAAGTCAAAAC
31601 CAATCTTTCAG TTGAAGAATC TTGAAAAAGA GTTCATCTTA ATTTGTGATC
31651 AGATTTCTGT TTGTAAAAAT CAATCTTTAA TATTTTAA AAATCTATCA
31701 GTGGATACCTG TTTAATCACA AATGGGTATG GAACACTCTT CAACCTCAA
31751 ACCCTGAAGG TTGCAGAGAA AACTGGGACT GTACAAGTTA GTGCTAACAT
31801 GATTATTTAT TCCATCAGAA ATTCAGGAGC AGTTGATTTT TTGCACTCT
31851 GAACTCTCTCT CCTTTTGTGT TCTATTGTG TAGCTTGTCT TATTTAGAGA
31901 CTGAAAACTA ATTCCAAAAT TTCTTATGA AAAATATAAT TAGTATCTCT
31951 TTATTATATG TATATATATC TTCAATATAT ATATGCACAC ACAGGTTGCA
32001 TATGATATGT TGTATATGTT TCAATCAGAA ATGGAAGTAA ACTGACAAA
32051 TAGATATACA AGATGGTGAT TCAATTTTTT AAACTCTCTT AAAGTTTGT
32101 CTCAATTTCT GAATTTCTAT TTACCTTAGT CTCAATATCT GAATTTACAG
32151 TTCTTAAATTT TAAAAATCAC TTAAAAATTA ATACAAATTT AGTAAAAACA
32201 AAATTTGAAC AGACTATATA GTATGTAGTC AAAAGTAAAG CTTCCTCTCT
32251 TCCCTTTGAA GGTGATTTCT GTTCAATAGA GATCAATTTT TTTGTGATAA
32301 TCTCTGCTGA ATTCTCTCTA TATTAATAAT TTTGTGCTGT AAAGACTGTA
32351 CCTATAGATG CAGAGCTCTG TGAGTTTCTT GGCATTTTAT GAACGCTTGT
32401 CCTTCTATCT CCTTCTCTCT GCTTCTCTAG AGTCAACTAA CTATGCTACA
32451 AAAATATCTT TAAAAAAACA TAAAAATTA TACAATTTTA AAAATATCTT
32501 GTAACAACTA TTTACATAGC ATTACATCTG ATTAGGTTTC ATAAGTAACT
32551 TAGGATATG TTAAGAATA CAGAGATCTT TTGTAGTTTA TATGCAATA
32601 TCAATCTCTT TATATATCTA GATTTGAGCA TCAATGCTAT TTGCTATCTA
32651 TAGGGGCTCT AATCTCTGTA CAGGCTATTC AAGGAATATT TGCAAGAAAA
32701 AAAGACAGAT AAATGATGTA AAAGATTTCT GGGAGCTGCT GCTCACTCTT
32751 TCAATCTCTG CACTTTGCTA GGTGCTGCTG GGTGCTGCTA GAGCTGCTGA
32801 GTTCTAGAGC AGCTCTGCTA ATATATCTGA ACACCTCTCT CTACTAAAAA
32851 TAAAAAATTT AGCTGCTCTT GGTGCTGCTA CCTCTAGTCT CCACTCTCTT
32901 GGAGGCTCTA GGTGCTGCTA TCTGCTGCTA GGTGCTGCTA GAGCTGCTGA
32951 TGAGGCTGCTA TCTGCTGCTA GGTGCTGCTA GGTGCTGCTA GAGCTGCTGA
33001 CCTCTCTCTA AAAACAAAAC AAAACAAAAC AAAACAAAAC TGAAGATTT
33051 ATAAATAGTA TGTATTTCTA AGCTCTGCTA TTTATAACTT ATGAAAAAT
33101 CACTTTCTCTA CTCTCTCTCTA TTTATTTCTA CCTGCTGCTA GGTGCTGCTA
33151 CTCTTTCTCTA AATACAAAAC AGCTCTCTCTA TTTATCTCTA ATCTCTCTCT
33201 CCTATTTCTA TTAACCTCTA GGTGCTGCTA TTTATCTCTA TTTCTCTCTT
33251 TGTGCTGCTA TCTGCTGCTA TGTGCTGCTA TGTGCTGCTA TGTGCTGCTA
33301 TGTGCTGCTA TGTGCTGCTA TGTGCTGCTA TGTGCTGCTA TGTGCTGCTA
33351 TCAAGTCTCTA CTCTCTCTCTA AGCTCTCTCTA CTCTCTCTCTA CTCTCTCTCT
33401 ACAGCTCTCTA CCTCTCTCTA TTTCTCTCTT TTTCTCTCTT TTTCTCTCTT
33451 TTCTATTTCT AGTCTGCTCT GGTCTCTCTA ATCTGCTCTA GGTCTCTCTT
33501 GAATCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
33551 GATTATAGCT TTGAGCTCTA ACAGCTCTCT TGTCTCTCTT TGTCTCTCTT
33601 TTTTCTCTCTA AAGAGTATCT AGTCTCTCTA GATCTCTCTT TGTATCTCTA
33651 ATCTCTCTCTA TCTCTCTCTA GATCTCTCTA TCTCTCTCTA TCTCTCTCTA
33701 TATACTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
33751 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
33801 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
33851 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
33901 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
33951 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
34001 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
34051 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
34101 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
34151 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
34201 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
34251 TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA

FIGURE 3, page 11 of 173

37801	TTTCTATTA	TCTAATTAA	AATTAATAA	AAAATTTAA	GGATAAATA
37891	TGTTTGTGT	AAAAATTATT	ATTTTTCTTA	GACATTTTAA	TTTGAACAC
37941	TAAAAATTG	GTTTCTGAT	TSAGATGTT	TTTATGATG	AAATGGAT
37951	TGATTTTAA	AGATTTAAT	CAAAAATGTA	ATATATGCA	TTAAATATTA
38001	CTTATATTT	TTACATGTT	CAATGTTATT	CTTGTGGTT	TATTGGATTA
38051	GATAAAATAT	ATTGTCTATA	TTTATTTTGT	TTATTTTAT	ATTTTGTCTA
38101	TAGCTACGAG	AAAATTAAAA	TTGTACTTAC	AUCATACATT	CCATTTTAT
38151	TGGATAAAC	TGGTATAAG	ATATTGTGG	AGTAAATGTA	TTCAATTCTG
38201	AGTTGAAATA	CCCCACTAG	AATTAATTTG	AGGCGTATG	TAASTGAAAT
38251	CAGACTTAGA	ATATGACGG	AGASAGAAG	TAGCTTTTGG	SASAGTTTAA
38301	ACAAAAGTCT	TGTGCTCTTA	AAGATTCTAA	TTTCAGAGCT	AAATGTGGAT
38351	TTAATGTTAA	CAACTAGTAT	CTAAAACTGT	TCATCAGGTA	GAGTACGACT
38401	AACCACTTTG	ATTAATAGCT	TAGGTTTTFG	CCAGCCCATF	PSAGTATTTG
38451	AAACTTTTAT	TATATTTTAT	AAATTTTGG	AATTATGAT	CTTTTCTTTG
38501	AAAAGAAACT	AGATTTATTA	AAATTAAGAG	GATGTTTCTA	AACTATGTTG
38551	AGAACCAACA	CTATCTGCAA	CACTATCTAA	ACTTACTACA	AATGCAAAAT
38601	TTCCAACTCT	AGCAAGAGCT	TACTGAACT	GAAATCTGCT	GGAAGAGGCT
38651	CAGGAATCTG	TGGCTTAAGA	TTCTTAAGG	ATTCGATGCT	AGATTAAGAT
38701	TTGTGAACCA	CTATATTTGA	ATATATCTTA	TTCTTGTAA	CTGATGGATA
38751	AGATTTGTTT	TAATAGATTT	AGATTTTAT	AAGTGAAGAG	CTATTTAGTT
38801	ATAAACAAGC	TCCAGGGCTA	TAATGATGTA	CTGAGGCTGT	AAGTAAGTCA
38851	TTGAAGCACA	AGCAAGGCTG	CTCTTTCTAA	CAAGCTCTTG	CATTAAATCA
38901	TTAGTATCTA	GGCAAGATTT	TAGATGGGGA	TTTTCTTTAT	GTAAGGTTTG
38951	ATTATTTATTA	ATTGATTTCT	TAATGAGGTT	TATTGCTTAT	CATTCTCAAA
39001	TAACTTCTGT	TTTATTTGTA	TACAAAGAA	TCTAATCTCT	CACCAATGATT
39051	TTACTTTTCA	TAATGCTACA	GAGAGCTTG	TGAATGTGAT	ACTTAGCTTAA
39101	ATGTATCCCA	CTATCTCTCA	TCTATTTCTA	ATGAAAAATG	ATTCTGTTGCT
39151	CTTTTGAGAA	CATCAGAAAG	ATTATGTAAG	ATTTTGTGCT	TGCTGAATTA
39201	TTTTAGATAT	GACATTTCTA	CTAAGGAAAG	AAAATGCTGT	TTCAAGAAAT
39251	TACTTCCAAA	AATGGTAAAG	AGGAATTTGA	GAAAAAGAA	ATTACTTCAG
39301	AATCTTACTA	ATTTTCTTAT	TCCAACTCTT	GCTTGTGTAA	ATTAAAAATA
39351	GACAAATGTT	GAGAAATGCT	ATTCTGTGAG	TTAATTTCTG	CACCTTAAT
39401	ATTTAAGTGT	AAATATTTAG	GTTAAGAGAG	GAAATATTTA	TGCTTGAAAA
39451	AGCTTGTCTT	TTTCATACT	TAAATGCTCA	CTAATATCTT	TGTTCCATTA
39501	TTATTTATTT	TTTGAATTAG	CATTATCTTA	CTTTATCAAA	TATGCACTTG
39551	TFTTCTAAGT	AGTTCTAAT	TCTTCTGCTT	AGTTGCGAAT	ACATCAAAATA
39601	ATTTTCTCTT	CTTTTCAAAA	TAGAGAAAGG	TTGTGTTTAC	CTTCCCATTA
39651	ATATAACAT	GGCTTTAAAA	AACATGAATT	TTATGTAAAA	TGTGAAATTA
39701	ATGTCAATAT	TTGTATGTAG	CATTTATCTT	TTCTTACAAG	GAGAGAAAAAG
39751	CCAGCAAGAG	ATTTCTGATA	ACTACCATCA	CTTAAAGTCT	TGTTTCTCTA
39801	AATACTACCC	CTTGACAAT	AATAAAAAAA	CTATGAAACA	AATAGGATTA
39851	GACTACAAGA	ACACAGGATT	ACTTTTATGT	CTCTAAAGCT	GGGAGTTCTG
39901	CAACATCATA	AGGGGTCTAA	AGGCTTAGCA	CATTGGCATT	TGGCATTTCAT
39951	GCTCGACATT	GATGATCATT	GTGTTTTAGT	ATTCAAAGCA	CAAGGAATTA
40001	TAAAGCTAT	AGAGTTTCTT	CTTTTATTTA	CTTTTAAAT	CTTATATTTT
40051	TCTAATAGG	CTTAATTAAT	CTTTTCTTAA	AACTTAATTA	ATTTATGATCT
40101	ATNTAATTTG	CTAATAAGGA	ATCAATATCT	TTTAATTAAT	CACTGATTTA
40151	AAATATTTAA	ATTAATTTTA	ATTAATTTTA	CTTAATTTTA	CTTAATTTTA
40201	TTTAAATTT	ACTTTTCTAA	TCAAACTTTT	TAAATTTTAA	ATTAATTTTA
40251	AAAATAAGAG	AAAAATTACC	ATAGGTGATA	ATAGTATACT	CAATAAAAAT
40301	GTAATAATTC	TCCCGTCTGA	CAAGATTTTC	AGTAAAAAGA	CTTGGCAAT
40351	CCCCAGGTAT	TAGTGGGGAT	TTAAAAATAT	AAAAAGAAAA	GCTTTCTTTT
40401	TTAAGCATAA	TATTTCCCGT	CTCTATTTAA	ATATTACAC	TTAAATATTT
40451	AAATTTCTTA	ATTCAGGCTA	GCAATAATTA	TTTCTAATTA	CATTCAATTT
40501	CTAGATATTT	ACATCTGCTT	ATTTTCTAT	CTTGGTTTAA	GTTTCTTCTA
40551	CATAAATTTT	TCTTCTTTT	TTGAAAGCTT	CAGTCTATGCT	CTTATGATCT

FIGURE 3, page 13 of 173

40951 ATGA WAGAG TGT TTTCAG TTG ACCTGT GTTTT TAT GATTTGAAAA
41001 TTGATTGGAA TTTTGCCTT GGTATTCTTT TAGCTGAAAA ATGTTGTACA
41051 ATTGAAAAAG TGTGAGGGG AGCTTGATCA TATAT TAAT GTTAAATCG
41101 ATTTTAGATA AATTCTAATT TTATGAATAT TGTITTTTGA ACAGGACAAAT
41151 TTGAGAAAAAT GAGGATTACT TATAAATAAT TATAATGATC ATGAAACACT
41201 ATTCTAATAA TTAAGATCT GAGTTGTAAA GATIGATATA TTAATATTTA
41251 CCTTATCTTT AAAAATATT GCTTGATTAT TACCTATCTT TCATGTGGIT
41301 CCAGAGGAA TATATTAATG TTTTAACAAA GATCTATCTA GTTGGATACT
41351 AAAATATTTT TGCAAAAATT TAAAGAGAAA ATTTAAATTA AATAAATAAT
41401 TTAGGAGAAA AAAATTAAC ACAATATAGG GACATTTAG ACCATATCAT
41451 TGTATATTTT GAGCATTAAG TTTGGCATG AATTTTTCGA CAGATTAAGG
41501 AAAATGAGAA AAGGAGGAGT TAAAAAGGAG AAAACATCTT GTTCTTAAG
41551 GGAAGCAAGG CTCTTCCCTAC TACTTAAGAA AATAAAATAT ATTTCTTAAG
41601 TGGGGCTTCC CAGATCTGGT TTTTGTAAAT AGACACAAAA CTGACCTAT
41651 TCAACAGCTG CTCAACAAAG ATATATTAAG ATTATCTATA AATGGCTATT
41701 TAGAGTTTGT CTAGAGCTGT TGCACAGTAA TTACCAATC CAAAAATAC
41751 AGTATGTGAG ATGACCTGG ATGCTGGTGT TTTTGCAGCA GATTTGTAAT
41801 TGCTTTTAT CTCTATCTG CTCTATTAAG TTGGGAAGCT TTATAAGTG
41851 GGGGTCTGCTT TCTATTCTA GTCTGTGCTT AAGTTTGCAC TACCTACTTG
41901 ATAAGGAAAA AAATTAATGT AAAAATGCTT AAAGCTTCTT ATTAAGTAG
41951 TCTAAGGGGG ATTTCAATGAT AACTCAATCT CTCTAAGATA CAGTTTAAAG
42001 GCAATATTTT AAAAAATAT TGAAGAGGTT GATTATGAAT TACTGCTCT
42051 TTTTGAAGAG TGAAGAAAT AAAACAGAAA ATGAGCTGTT CATAAATAT
42101 TGCTGAGTAT ATTGATTTGA GCAAAATTT CACCAATAAT GATTTTGCAC
42151 TGAGTGTGTA ACTAATATTC TTGATTAAG AAAACAAAGC TTTTGAAGAA
42201 TGAATCCTAG AAGTTTGTCT AAATTTCTCT CACCTAATAT GAGAGAAATG
42251 TATTCAGAGCT TTGCAAAAT CTCTGTATAA CTCTGTAAGAA TCTATGTCTA
42301 TCTCCTAAGA ATCTTACCAT ATTAATACCA GTTGTAAATGT AGGTAAAGAA
42351 TGTTGGCAAAAT ATTTCTTAT ATGAATTTCT TTCAAAAGTA TTAGCTCTGT
42401 AACTCTTTCA GAAATCTCTT GGAGGAGGCA ATTCACAAAG AATAAATCT
42451 AAAATTTTAA AAGCTTTAGG GCAAACTACT TTGTTTCTCT TAAAAATCTC
42501 TGCTTCTAGG AAGGATGCTT CTACTAAGGA AAACAGGAAA GTGCTATAG
42551 TGATCTATAA CTATCTATAG TTCTACATGGG ACACAGAGAGG AGATAGATTT
42601 TTACCTTTGT TTTTCTATCA CTGTAAGCAG ATAAATGTAT ATTTACTTAA
42651 GGTAGGCTTG AAGTCTATTT ACAATCTCTA TTACTATTCT TCTCATTTCT
42701 CAGATTTTTT GTAAATTTAT CAACTGTGGA AAGAGAAAAA CAGAAATAGT
42751 CTCTCTTTTA ATTTAGAAAT GGAGCACTAT AAGCATAAGC ACAAATCAAA
42801 ATTGCAGTTT CTAAATGTTA TGACTTGAT TAATTTGTAT GAATTCATGC
42851 CATATTTCTG TGAATTTGCT TGAATTTGCA GGTATATGGC TTGGCTTCTA
42901 TCTCCAGTTA TAAGCTTTG TATAGTCAAG CCTGACTAGG GAGAAATGGA
42951 GAACTTCTCT CTGGCTTACA GCTCTCTTAA GGGCAGCATG CAGCTTAGTG
43001 CTGGUCATGA TGCTCTGGCT TTTGGAGATC TGCACACACA AATTCATTAC
43051 CCCACCTTTA ACATCTATGT CACAGATCAA GGGTTTGCAA ACCATGATCC
43101 ATAGGAGAAA ATAGGAGAAA AATGCTATTT ATTAAGTTA TATTTGATCT
43151 TGAAGATTTT AAATTTTAAA TGCTTTTCTG TTTTATCTCT GTATAATCT
43201 TGCTTAAGT AATTTTGTCT TTCTATCTCA CTCTATTAAG CTCTATTATA
43251 ATAAAGATTT ATTTTAAA ATATCTTAA TTTTATTT ATATTAATCT
43301 TCTCTCTCT TCTTAAGAAA TCTTAAGTT ATTAATTAAG AATTAATCT
43351 TTGAATTTCT TAAAGTTATTT AATAAATGGA TCTTTTCTCT CATTTCTCT
43401 TACTTTTCTT AATAAATTT ACTAATGCAA TAATCAGAG ATATTAAAGA
43451 AATGGCTGAG TGCTCAAGCA TTGTTGGCTT GACAGAGCAT CATGTTGAGA
43501 AGATTTCTGA GACGAAACCT AAATTCACAA TGAAGAGCTG CAGTCATTGG
43551 TGGGATTAAG ACAGGAGAGA CAGGGTGTG CAAATTTCTG TACTCCAGT
43601 AGATGAGGAT TTAAATTA TGCTTGCAA CAAATGAGT TATGACTTG
43651 TTGATTTCTT TAAATCTCT TCAAGAGAT TCTAATTT TAAATGAG
43701 CTGATTTTAA AATTTAGTTA TCTTTGTA AATTTTAA CAGCTTTTAA

FIGURE 3, page 14 of 173

44101 AATGFGTAAT GATATCACAT ATTTTGAACT GTTTAAGACA AGSTGGGTAG
44151 GGATATAACA TAGAGCAACT ATATCACTTG AATTAAGAG AAAAAGGCTT
44201 TAAACTAGCT ATCGTTASTG AAJTAGATA GTACACTAAG CTIACCTGAG
44251 GAGAGTAGTT GAGCGTCTCA CTACGTGCTG AACCTAAGAG ACACTGGTGC
44301 GTTCAATTTT AATGAGGAGG TTFTTTTCTT GTTGGAAAC AGTCTTTGTA
44351 AACAGTGTGG CTGTCAGTCT TTFTTTGTGC TGGGTTTCTT CCGATCCCT
44401 TACATGCATT ATCAGATCTA ATCTTGTCAA GAGATCTTGG AGTTTCAGAT
44451 TGTGGAAGCC ATTTTACAGA TAAGAAAAAT GAGGCTATA GAACTAAGT
44501 AAAATTTCCCA STGTGCATGA GTTGTTCAGT GGTAGAGATG AAATTCAGAC
44551 ACAGGCTCTT GATTCAGTCT TCGATGCTGT TTCTTTGAG GATCCATTG
44601 TGTATGATAA CAACTTTTGA TTTAAAGGAG ATGGAAGATA TATTGGTATA
44651 AAAAAGATGT ATCTAGAGAT TTCAAGCTTC CTGCTCATTT TTCTTTGAG
44701 CCGCTTTTCT CTGCTCTTCA GGTTTATATT TTAAGCTTAC ATCTTACTT
44751 GTGCTCTTCT TGTCTTATTT TTCTATTTCT TTCACTTCTA GAGGATTAAG
44801 ATAGCCCAACA TCGGACTGTA ATCTCTGTGA GATAGATCTT GATGACCTT
44851 ATCTCTCTAG ATTTCTTAT AGGAGAGATA GAGGATCTT TCTCTCTGA
44901 ATGTAAAAAT AGAAGGAGT AGAGGAGGCT GTTCAAGAT ATCTTAAAT
44951 ATTTATTTGA TCTAAGTAT GTGATCTCAT ATTTCTATG TAGCTCAAGA
45001 TAAGATGAAG AAAAAAGGCT CTTCATTTCA AGAGAGGCTT TTTTATATA
45051 GTTCAAGTATA ATGAGAGGAG TCTTTGCTCT GAGGATCTT GAGGAGGAG
45101 AGAGCTCTCTT TATAGCTTCA ACATTTCTCT CATTTCAAGG GATTTGAGCT
45151 ATAGATTTTC AAAGCTAATTT GTCACTGAGT ATCAAGGATG GATCTCTAA
45201 GATGGGCTCT AAGAGCTCT AGGAGTGAAT GGGGATCTCT GAGGAGGAG
45251 ACTTCACTAT ACTTGAAGCA GAGAGGATAC ATTTGAATTC AATGCTCTTT
45301 AAAAAAGAGG TCTCTCTGAA ATGGAAGGAA AAATTTGAAG AGCTATATAG
45351 CTGAGATTTCT TCAATTTCTG CTGAGCTTCT GTTCTATCTT ATTTCTCTCT
45401 CCGCTTTTCACT ATAACACTCT CTGAAGGATAT AAGGCTTCTA AGAATTTCTAT
45451 TCCAAATTTAT TCGCTGAATTT TCGTAAATGAT AAAAAAGATT TTAATAGTAA
45501 TTGCAATTTCT TAATTACTGA ATCATAGAAC ATTAAATCTT TGCAATATCA
45551 CAAGGCAAAAC CTCAATATAT AATTAAGTAA TGAGTCTCTT TGTATCTATG
45601 AAATGAGATA CTAAAAATA TAGATCTTCT GGAATTTAT TCAATTTTAA
45651 GATATTAATA ACTAAAGGAT ATTCTCAACT ACTGAGGAG TGTCAATAA
45701 GTTAAGAGCTG CAATGAATAG CTGGAATTTA AAAAAAGTGA GTATAATTTT
45751 ATTAGCTCTG ATATCTATTT TACTCAAGGT CATGAATCTAG AACTTTTAA
45801 ACTATTAATA TTGAAGGATA TCAAGAAATA TAATGATCT GTTCTATGCT
45851 ATATTAATAA GTTCATTTTT CCATGCTAAA CTCTCTGAG TTTTAACTA
45901 TGTATAGTCT TGAAGCTTAGG CTTTTTTTGA AGGATTTGTC GTATATTACT
45951 AATGGGAATG CATAAATTTT ACAAATAAAA TTGGCTTAST AGGCTAATTT
46001 AATAGAGCAA CTTCAGGTA TCAATCAAG TAAAGCTTCT CTGAGACTTT
46051 CTTTTACTAT ATGAGCAATA GGAATAGGTT CTAGAGCTATA AGTGTCTTTA
46101 AGAACATGTA TAAGAGAAAA AGAGAGAGAG TAAAGATTAA AAGGAGCTG
46151 ATTGTTAAAT ATTTGCAGAA GTTTTTCTGG TAGTTAATCT ATAAGTACTA
46201 AGTGAATATA CAGAAGCCAG AGCTCTAATA GTTTCTTCAA TGTTTTAGCA
46251 TCTTTTTCTA GGTGAGGAT GAGTTGATTT GTTTTATAG AAAAAAGTT
46301 GATGCTATCT GAGGAGGAT TATAGATAT AGGCAAGGAA AGGAATTAAG
46351 TGTGAGCTCT ATTAAGGAG TATAGATAT ATCTATTTA GTTTTATGA
46401 TTTAAATGAT TAAATTTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT
46451 TCTTTCTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT
46501 TCTTTCTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT
46551 TTTTCTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT GTTTTCTCT
46601 GTAAATTTTA TTTATTTTTC TCAGCTTTCT TCAGGATATA TTGACAAGTA
46651 AATATTGTAT ATATTTATAT TGTGAGATCT GATGATTTGA TACATGTATA
46701 CATTGTGAAG TAATCACCAC AATCAATTAA CATACCTACT ACCTCACATA
46751 GTTACCTTTT TTTTGTGTA GAGCATTTAG GATCTATTTT TTAAAGAAAT
46801 TTTAAATATA TAAATTAATA CTTTTAAATA GATTTTAT TTTTATTA
46851 TATTTATATG TAAAGCAAAA TGAAGCTTAA GTTAAAGAAAT AAAAAGAAAA

FIGURE 3, page 15 of 173

47251 TTTTAACTTT TATTTTAAAGT TCAGGGGTAC ATGTGCAGGT TTGCTATATA
47301 GGTAAACTTG TTTCATCGG GTTTATGTA CAAAATATTT CATCAGGCA
47351 GTATTAAATC TAGTACACAT TASTAATTTT TGCCTATCCC CTGCTCTCTT
47401 GTACACCAGA CCTCCCAATA GGTCCGAGTG TGTGTTSTTC CCTCTAGGT
47451 GTATATGTGT TCCGATAATT TAGTATCAT TCTAASTGA GAATATATG
47501 TACTTAGTTT TCTCTCCTG TGTAGTTTG TTAAGATAA TGGCTGCA
47551 CTGACCTAT GTCTTTGCAA GTATCTGAT CTCAATCTT TTTATGGCTG
47601 CATATATATC CATGGTGTAT AGGTACGACA TTGGATAAAT AATAAAATTA
47651 AGGCAAAATC AAAAAGTTGT TCAAACTAG TAAGAAATAA SATACAACAT
47701 ACATGAATCT CTGGGAGAA GATAAGGAG TATTAAGAG AAAATTTTAA
47751 AGATTAATTT CCGATATGAA AAAGTTAGAA AGATCTGAA TTAACAACCT
47801 AAGATACAAA CTGAAAGAA TAGACAACTA AGAGTAAACA AATCCAGG
47851 TACTAGACAA TAAGAAATAA CCAAAATCAG AGGTAAATC AAGAGATTG
47901 AGACACACAC ACACACACAC ACACACACAC ACACATTTCA AAAATCAAC
47951 AAATCAGGGA GGTGCTTTT TTTTGAAGAA AAAAAAAAT AAGTTCTTC
48001 CTAGACTAAT AAAAGAGAAA AGAGAGAGA TTAAATAAA CCGAAAGG
48051 ATCAGAAATC ACAAGGAGA CATTAAGCA GTACTATAG AAATPAAAC
48101 AAGCAACAGA TAATATPATA AACACCTCTA TGGATATAAA CTAGAAATTT
48151 TAGAAAGAA CTGATTAATTC CTGACACAC ATAACCTTA AGATTGAGC
48201 AGCAAGAAAT CCAATCTCTG AACAGACCAA TAATTAAGTTT TGAATTTAG
48251 TCAGTATPAA ATAGCTTACT AACCAAAAA AGGCAAGGCT AGATGATTC
48301 ACAATGAAAT TCTGCAAGAT GTATCAAGAA GAGCTGCAA TATTCTGCT
48351 GAACTATTT CAAAAAATTT GAGGAGGAG GATCTCTCT TAACTTATTC
48401 TATGACGAG TATTAATTTG ATACCAAAAC CTGATATAA TACCAAAAA
48451 AAGAAACTT CAGGCAATA TCTTGATTA ACATTCATG AAAAACTTC
48501 AACAAATTA TGGCAAGCA ATCTCGGAG CATATGAAA AGCTTATCCA
48551 CCATGATCAA ATAGGCTTAA TCTCTGGAT CCAATTTTGG TTAACATAA
48601 CTAATGCAAT AAATGAGATA CATAACATA ACAGAACTGA AGATACAAAC
48651 CCAATGATTA CTCAATGAA TCGAGAAAG ACTTTCACTA AAATTCAGCA
48701 CCGCTCTCTG TTAAAAAGA AACTCGATA ATTAGCTATT GAGGAGAT
48751 ACTTCAATAT AATAAGAGCC ATCTATGGCA AACCAACTT CAGCATATA
48801 CTCATGAGG AAAAAGTGA AGTATTCCCG CTGAAAGCTG GAGAAAGAC
48851 AGGATGCGCT CTCTCACTAA TCTATTCGAA CATAGCATTC GAGTCTCTGG
48901 CTAGGCAAT CAGGCAAGGG AAAGAAGTAA AGGACATCCA AATAGGAGA
48951 GAGGATTTA AACTATCTT CTTTGCAGAT GATATGATC AATATCTAGA
49001 AAAAGGCTTA GTCTAGGCG AAAAGCTTCT TAAGCTGATA AGCAACTTCA
49051 GCAAGCTTCT GGTATAGAAA ATCAATCTTC AAAATCACT AGCATTTCTA
49101 TACACCAACA ATCAAGCTGA GAGGCAAAAT AGGAATGTAA TCTCATTCAC
49151 AATTGCCACA AAAAGATTA AATACTAGCA ATACAGATAA GTAGGAGGT
49201 TAAGCATGCC TACAAGGAGA ACCAGAAAC ACTGCTTAA GAAATCAGAC
49251 GTACACAAA CATATAGAAA AACATTTGT GCTCATGAT AAGAGAGAAC
49301 AAATTTGTAA AAATGGCAT ACTGCCAAA GCAATTTAGA AATTCATAG
49351 TATCTCTATT AAATAGCAT TGACATCTT CACAGAACTA GGAAAAAA
49401 CTTATTTTAA AAATTCATTA GAAACACAA CACAAAAA CCAATAGAA
49451 TATCTCTATT TTAATTAATA AATAAATA TGAATATAT ATCTATCTT
49501 AATCTCTATT TTTCTCTATT AATCTCTCT CAGCTATTTA AAATCTCTA
49551 AATCTCTATT TTTCTCTATT TTTCTCTATT AATCTCTATT AATCTCTATT
49601 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49651 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49701 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49751 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49801 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49851 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49901 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
49951 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT
50001 TATCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT TTTCTCTATT

FIGURE 3. page 16 of 173

50491 TAAATTTTCTT TTTTCTTATG ATTCAAGCTT AATAGGTTG TTTTCTTAA
50491 AACTTATCCA TTTCTTCTCG GTTATCAAT TTGTTGCTGA ATTATTATAC
50501 AAAATATATC CTGTAATTTT TTATATTCTT GTGATATCAG TGGTTATCTT
50551 TCTTTTCTTA TTATATTTT TATTTAAGTC ATCTCTTTT TTTAGATAA
50601 TCTAGTTAAA GTTTTCTCAA TCTTGTATAT CTCTTAAAA AAACAACTCC
50651 TATTTTCTAT GATCTTATCT ATTGTTCTCT AGTCTTTATT TTATCTCTGT
50701 TTTAATATAG TTTGATTTT TTCTGTAAAT GTTTGCTTA ATTTCTTTT
50751 GGTGTTTTCT TCTAGTTCTT TAAGGTGTAA AGTTAAGTTG CTATTTGAG
50801 ATCTTTTCTT AATATAGGTC TTCAATTGCTA TAAATTTACT TCTTAAACT
50851 GGTTTTGTAT TATCTATAAA GATTTGATAT GTTGTCTTCT ATTTTCTCT
50901 CAAGATATTT TTCTCTTTT CTCTCTTCT CTCTTCTCT GATATCTAGG
50951 GGTATGTTCT TTAATTTCAA CATTCTTTT AAGTTTCTTA ATTTCTCTCT
51001 TCTTATTTCT TTCTAATTT ATACCACTCT TTCTATTTAA GATCTTATAG
51051 ATGATTTCAA CTCTCTTCAA TTGCTTAAAT CTCTTTTCT GGCCTAATCT
51101 ATGATCTCTG ATAACATCT ATCTGTCTGA GAGAGAACTA TGTATCTCTC
51151 TCTGTTTCAA TCTAATTTCT TATATAGGTC GTTATCTCT ATTTCTCTCT
51201 TATGTTTCTT CAAGTTCTAT GTTATCTCT TGTATTTCT ACCTCTATGA
51251 TCTGTTTCTT GTTGAAGGTC GTTATTTAA GTCTCTCTAT ATTTCTCTCT
51301 TCTGTTTCTT TTCTCTCTCT AGTTATCTCT ATTTCTCTCT TATATCTCT
51351 GATCTCTCTT TATATCTCT ATATCTCTCT TCTATCTCT ATCTCTCTCT
51401 TATTTTCTAT AGTCTCTCT TTTTAACTTT TATATTTAA TCAAACTCT
51451 TCTACACACT AATCTCTCT TATATAGGTC TCTATCTCT GATATCTCT
51501 TTATTTCTCT TCTATCTCT TCTATCTCT TCTATCTCT CTCTCTCTCT
51551 AATCTGAAGA AGTCTCTCT TCTATCTCT AAGCTCTCT TATGATCTCT
51601 CTCTCTCTCT CTCTCTCTCT GATATCTCT TCTATCTCT AGGAACTCT
51651 TCTAGGTCCT AATCTCTCT GTTGAAGGTC TCTATCTCT TTTTCTCTCT
51701 TTTTCTCTCT AATCTCTCT GATATCTCT TCTATCTCT TCTCTCTCT
51751 AAGGTTCTCT CTGAGAACTT TTCTGATCTT TCTATCTCT TCTCTCTCT
51801 TCTTATCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
51851 GATCTCTCTT AATCTCTCT TATATCTCT TCTATCTCT TCTCTCTCT
51901 TCTATCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
51951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52251 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52301 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52351 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52451 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52501 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52551 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52601 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52701 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52751 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52801 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52851 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52901 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
52951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53251 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53301 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53351 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53451 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53501 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53551 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53601 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53701 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53751 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53801 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53851 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53901 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
53951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
54001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
54051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
54101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
54151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT

FIGURE 3. page 17 of 173

53851 GAAACTAAGG CAGGCTAAT GTTGGGTAT GAGGGLATA GTTATATAT
53861 AGGTTAACT GGAGAAGGC TGATACTGGG GTTCATATG AACTATTGG
53871 TGGATCAAT CTTCCTCCCA CAGGCTAAG GTATCATAT CAGGTTGTG
53881 TGGATATTT TTGGGGGAG GTTATGAGG GTATATATAA AATATATAT
53891 TTAGCATCTG CTCTGCATCT TTTCTTATTC TCGTGTATG CTCAAGTCT
53901 TTAATCTTTT AGTTGCATTC CTTAAGCAT GTTAAAGTAT TTTCTGGTG
53911 TATATGTTCT TCAATGAT ATTTTGTGA AGGAAATTT CTATTCAGT
53921 ATGTGCTGA TGATACCCCT CTTCCTATTT AATTATTTT AAATCATSCA
53931 GTTAAATAA CTGAACATCT CGATACTCC CTAATCAAC ATAGGTCATG
53941 TTAGTAAAT TTAAGCATGC TTGTCTTA TAAGCAGCTTA CATTAGAAAT
53951 TTTTCTAAT TGAAGACATA ATTTTAAAT AATTCTCTTT AAATACATTG
53961 AAATCTTTT AAACATTTT AAAGATATTA CAGCAACAT TATTAAACA
53971 GAATCTATAA AAATCATATG CATTTTAAAT TTGTCTGGT TTATATAGA
53981 AGTACAAGCT CAAAAAGTGG CATTCCTA GTCAATATG TGCTCTGTT
53991 ATTTCTTAT TGTCTGGTCT TGAACATTT GTTATCTCT GTGCATGTT
54001 TTTATCTGT AGGATAGGCT TAATTTATG TACATATG AGTTTAAAT
54011 AGGAGTGGT GACATAGGCT AGGCTATTA AACATAGCTT GGCACACAGT
54021 AAGTGTCTCA AGAATGTTGG CTCAATATTA TAGCTTTTCT TTTTCTTTT
54031 TTTTGAAGG GATTCTCAT CTATTCTCA GCTCTAGTG CACTCTCTG
54041 ATCTCTGCT ACTGACGCTT CAGCTCTCTT TTTTGAAGCA ATTCCTCTG
54051 CTGAGTCTCT TGAATAGCTG GATTTACAGT CACATACCA CAGTCTCAGG
54061 TGAATTTTCT GCAATTTTAT TATAGATGCT GTTTCAATAT GTTCTCTAGG
54071 CTGCTTTTGA ACTGCTAAGT TGTGATCTG CCACTCTTGG CTTCTCAAG
54081 TACTGCTGAT AGAGCTATGA GCTACCTGCT CAGCTCTATA CTACTAGTT
54091 TAACTCAAGT TTGTCAAACT ATTTGAAGG AGAGTTTAT AAATAATTTG
54101 AAAAAATTAAT TGTCTAATAA GAGTGTATCA GTTCAATAT AGTGTCTAT
54111 CTGAGGAGAT GCTAAGTAGT ACCTGCTATA GACTCTTGGT TGAAGAAAT
54121 GGGCTTAAAA ACCATACAGT TAAAAAGCT AACAGCAAC AACAAACAAA
54131 AAAAAACAAA AATGACCTCT AACTGCAAG AACAAAAAA CAAAAACAA
54141 AAAACCTAT CACAGGCTCT TCAATATGA GTATATAGTG AAAACAGGAG
54151 AAAATTAAT CCAAAACACA AAAAGCTCT CTTTCTAAT CACTCATTTG
54161 AATATTTTAA CCAATTTAGA TTGATGAGT TGCACAAAA AAATACAGTG
54171 AAAAAATCA AGACAGCTCA ATAGTCTCAA ATTATTTATA AAAAGTAAAG
54181 TCAATTAAT GTTCTAAAA CTCTGATGTA AAATATTAAG TGTCTATAT
54191 ATAGTATAC TAATACCTAG CAAGAACTAT AATGATAGAA TAGAAGGAA
54201 CAAATTAATA AGTAAGAGCT TTATTAAGCT GTTATATTTA AGACTGTCAA
54211 TCTTAAGGAC AGATATTTCT AACTGCTGTA TTATGCTAAA TGTGATTCAT
54221 ATCAGTCAAA AAGACTGATG TCTCTTGGT TATCTCTTTT GATGACAAGC
54231 TAATATTTTC TTTCAAAAGT GAAATATATG TATAGTTAAG AACATTTTAA
54241 GTTATCTCT AAAACTAAAT TGAATATAGT ACGGAGCTAT CTTTGAATAG
54251 AAAAGACCAT CTTATTTGGG CTCTATGCTAG CTTTCACTGG CAGATTGAGA
54261 GTTCACTTGG TCAGAGGCTT AACGAATTAT GACTCTCTCT AAAACAGCTC
54271 CATGAGTCTG CTTTCTCTCT CATCTCTCAT ACCCTCATGG TCTGGTCTAT
54281 ATTTCTGTGG AGGTAAACCA GAGTTTAAA AGCATTAACA CTTCTCTAG
54291 TTTATATTA AATTATTAAT AATTAAATTT TTTTAAAT ATTATCTAT
54301 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54311 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54321 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54331 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54341 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54351 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54361 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54371 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54381 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54391 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54401 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54411 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54421 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54431 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54441 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54451 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54461 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54471 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54481 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54491 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT
54501 TTAATATTA ATATTTTCT TAAATATTT TTTTAAAT ATTATCTAT

FIGURE 3, page 18 of 173

56701	TTATTGAAAT	ATCTAGTAAT	TAGCTCTTTT	AACTGAAACT	AGAGTGAAGT
56751	CAATACATTT	ATAAAGGAGA	AATCTTGAAG	TCAGGAATCA	CCAGAAATA
56801	AGTAGAATT	TTTTTACATT	TAAATSSAA	ACATCAAA	ATATTTTT
56851	TAATATAGTT	TTCTTATTT	CSAASCTGAG	TTATTAAAGA	TGAAAATTAT
56901	TTTGAGTTTT	AATGACATCT	TTTTTATTTT	ATCATTTAG	AGATGTTGTC
56951	RTTAGAATAT	ATTGCTAAAA	GATTTGGCAA	AATAAATTTA	AGAGAATAA
57001	TTTAATTAAT	CTAGTCTTAC	ATTGCTTTTC	TTTCAAGAG	TGTTTCTGTA
57051	GGCATCAGAC	TAGCAAAAT	ATCTTTGTC	ACATCTGCTC	TCATTTTCCA
57101	AATTGAAAC	ATTGGGAAGC	ASAAATTTGG	ATTAAATTTT	ATTCTTAAAC
57151	CTTGGATCAA	GCTATAAAAC	CACATTTCTT	CTGCTACAGA	AAAGCTTTCT
57201	TGAAAAATC	TCAAAACAT	TTTGGCTTGA	GCDAACATG	TCCTACAAAG
57251	GATGTAAAT	TGTTTTTCAA	TTTTTCAAGC	TTTCAAAAT	TTTTCAAGTT
57301	TATCAAAAT	TGAAATAAAT	GGATTTTTTT	CTGCAAAAT	ATATTTTCA
57351	GCAGGTGAA	GAGGTTGAG	TCACTAAAT	TTTCTATTT	ATAAATTAAT
57401	TATTTATACA	ATTATATTT	ACACAACTTT	GGAAATTTG	ATGAAATTA
57451	AGCCCAACT	TTATCATAGT	TGATTTTCA	GAAGGCAAT	CTAAGAAAT
57501	AAGCAGATCC	AGCTACAG	TGGTTCTTCT	AAATAAAGCT	TGAGAGAT
57551	TCTGTATGAA	ACTTTTCTT	CTGATATTT	ATCATTTT	TGGCTGCA
57601	GTGAAACACT	TTGTGTTG	CTAGCTACT	CTTGGATAT	AGAAAGAT
57651	TGGATGATA	GTGAAATAT	AGGACATTT	ATGATTTCT	AGTTCTCT
57701	GCATCTCTCC	ATCACAAT	CTCATTTG	TTATCTCT	AGATTAAT
57751	CTACTCAACT	ACTCTATTT	CACCTCTT	ATCTCATATA	TGCTGCTCT
57801	ATTGTCACT	TATAATAAT	TGAATTTG	GAATTTTGA	GAAACATGAT
57851	TTCCAGCTTA	ACCAGATATA	CAGTTCTT	TTCTACAGG	TATTTGATG
57901	TGTTCCATGG	ATGCTTTG	TGAGGATTT	TTAGGCTCT	TTTGAAGCTA
57951	TTTAACITTA	TTTTCAGAT	AGTTGAAAT	AAATATGCT	AGAAATCAT
58001	CTTTTCTTGA	TACTCAGAT	TTTTCTCTT	TTCAATTAAT	CTCTCTGGT
58051	GCTCTGTTTC	TATCTCTAT	ATTAAAGCT	AACTCTTAT	AATGACCCAC
58101	GAAGTTTGA	GTTTGGACT	TTTTATTTG	CTCTGCTTT	GTCTCCCAA
58151	CTTTTCTCT	TCCTTCTCT	AGCTCTCT	ACCTCTGCT	TCCTATTTG
58201	CCTTGAAT	GTCAGACAT	CTCTGCTTA	CTGCTGCT	ACTTCTGTT
58251	CCTGGAATG	CTTCTCTCA	AATAGCTCA	TGATCTAT	CATCACCIT
58301	TCTCTGCTT	TCTTCAATG	TCTGCTCT	AGAAAGCT	TCTATGACAA
58351	TTTTATTTAA	AACTGCTG	CTTACTCT	CTTACCTCT	CCTGTTTTAT
58401	TTTTTTCTAT	TGTCTTTCT	ATTATCTAT	TACATATAT	TACATATGTA
58451	TTTTTCTGTC	TATCTTTCT	CTCATCTAG	CACATAAGT	CAGTAAGCAG
58501	AGAGAAATTC	ATCTGTTTT	TTTACTGCT	TGATGCTAT	ATGAGGCTG
58551	ACAAAACCTA	GTAGCAATG	TACAAGTAT	TGTTGAATG	ATTAAATAA
58601	ATAGAGTTAC	AAAATCATTT	GATCTATTA	TAAGAAATTA	GCATGGGTTT
58651	TGTCTCTTGA	ATGCAAGCT	TAATTTTAA	TGATATAT	CAAAATTAAT
58701	AACACTAGAA	AAACCTAAAT	TCCAGTTAGT	TTTCTATCT	GATTTTCTAT
58751	TCACCACTGA	GGAGACCTG	AATGTGAAGA	AATATCTAT	GAATTTATCT
58801	AGCTTCATAA	TTTTTTTTG	GCAGGGTAT	GAATAGCTG	GCTACTAAAG
58851	CAAAATTTCT	CAGACATTT	AGCAATGCT	TTCTCTGCT	GAAGTTTGA
58901	ATTAATTAAT	TTTAAATGA	CTCTCTTAA	TTTAAAT	TGATTTAT
58951	GAATTAAT	AAAGATTT	TAAAT	TAATTTAT	TATTTTAA
59001	TTTCTTAAAT	GTAAATTT	AGACATTAAT	TTTAAAT	GAATTTAA
59051	AAATAATTA	ATATATTA	TAAAT	AAATTT	ATTAATTA
59101	TAATTTTAA	TTTCTTCT	TTTAAAT	TTTCTTTT	TTTAAATTT
59151	AATTTAAAT	TTAGCTTTCT	CATCTCTCT	CATAGGCT	ATTGTTTTT
59201	ATTCTCTTAG	ATTATCAAA	TATGCATAA	TAAGTTGAA	AGCAATATA
59251	CATAGCAATT	TGTTTAAIAA	ACATAGGAT	TTAATAACA	TGTAAATGA
59301	TGTTTAAIAA	CAACCTGAAG	AATTCAGCT	CTGCTCTTAT	TGCTTACTG
59351	ATTTTGAAT	TCTCAATTT	TTTTTACTT	TCTCAATTT	ATTTTGAAT
59401	CTAAATTA	AATTAATAAT	AATAGATCT	ATCAATTT	CTTTTATCT
59451	GAATTAATTA	AGTTAATAA	TACAAAAT	TTTCAATTA	GCTGAAGATA

FIGURE 3. page 19 of 173

59851 AAAAATAATA TTTTTCGAAT TGAGTAATTT TTSTTTAGAA AGCAATCAAA
59901 ATAAATTCCTA CTGUAAGAAA TCTCAACTTT ATAACTACAT TCTATCCTAA
59951 AAGTTTCTTA CTGCATTGTT TGGAATCTTA ACAATTTTAA TACGTAACATA
60001 ACTTTAATA AGGTTAGACA TGGGCTCTTT GTGTTCTCAT SCTTGAGAAA
60051 AAATTAAGTTT AATTAGGAAA ATATAAGAGG GTAAATAAAA ACCGATTTTGT
60101 AGAATTAATA AATTCTGTTT GGACATTTGT ACAAAACGTA GGGCACTGGG
60151 TTGTATCTTT TAATAAATAAT TTCCTGCTCT ACCCTTAGAA CTCAAAGATF
60201 CTSTTTCTAG ATATTGATTT TACAACTACG CTAACACTGG CTGGCAGCTT
60251 GTTATTCATTT ATATCACTTT TTCTAGTTCT AGTAAATGAT TACCAAAAAA
60301 TCCCTACAAA TCCCTAGATA GAGAACTCTT TGATAAAATG ACAGAACTCAT
60351 CGAGTAAATAT ACAATGAGAT CCTTAAAAAA GAATGAGATA TATTTCTTTT
60401 TACTTACCTG AAAACATGAG TAAATATATAT CATGAGAGAA ATGAAAGGAG
60451 ATGAGAGAAAG CTTTGAATTA TACCTATACG TTTTCTTCTG GAGGAAATAA
60501 ACATCTTTAT TCTCTGTTCT GTTGAATCAT ACTGACATTT TTGACCTTTA
60551 AGAAGAGGAA TTACTTTTCT GGCAGGAGAG AAGAGAGATA AGAAGAAATT
60601 TGTCTTCTTT TATCAAAATG ATAATTCATA AGCAAAATGAT TTAATTTTGT
60651 ATTTCTCAGC CATTGGAATG CATTGCACTG ACTAAATTTG TTCTATACCT
60701 AATTCATCAT GCATTAAGAA GTTTTCTTTA AAACTCAATT GCAAGAGACT
60751 AAGGAGAGAA ACACACATGT ACTTGAAGTA AGTGAAGGTA ATGAGAGAGG
60801 GGAAGAGTAA GAGGATTTAA AAGGATGTTT GAAATCATTT AAGAGAGATA
60851 TTAATTAAGG TGAGATAATT ACTGCTGCTA GTGCTTATCT ACAATGACAC
60901 GGAATTCAGC AAAATTTATG TGAGAGGAAA GAGGATTTTA GGGAGCTGCT
60951 TTGCTGAGCA CAGTCTACTA CCACCACTTG ACTTATCTAA CTGAGAGAGG
61001 TTGAGATGCT GTTATAAGTG GTTACCTAAA AGGAGGATAA AAATGAAATG
61051 GCATTTGGAT TAAAAAGTGG AAAGAAGTGT GTGAGCAATT ATTGAAGAT
61101 TATAACAAGA AGTACATATA ACACTTATAG TCTTACAGTA TAGGAAAGAG
61151 TATAATATTG TGTGCACTGG TATAAAAAAA TCTATATAAA TTTTAAAGG
61201 CTGACATGCT TGGCTCAGCG CTGTAATTTG AGCACTTTTG GAGGCTGAGG
61251 CAGGCTGATG ATGAGGTCAG GAGATGAGTA CCACTCTGCG CAAGATCTTG
61301 AAAAGGCTGC TCTACTAAA ATACAAAAAT TAGCTGGCTT TGCTGGGACA
61351 TGCTCTGATG CCAACTATTT CAGGAGGCTG AGGTGAGAGA ATCACTTGAA
61401 CCTGCTGAGT GGAGGTTGAA GTGAGGCTAG ATTAGGCTAG TGCTCTGAG
61451 CCTGCTGAGT AGAGGAGAGT CCTGCTCTCA AAAGCAACCA ACAAACAGAC
61501 AAAAAAACA AAAAAAATTT AAGACTGCTT TAAATGCTTT CGTTTCTTTT
61551 AAGGCTGAGT CTTCTCTACA ACTTTTGGAA AAAATGCTTT TTGCTCTAAT
61601 TTTTGGCAAG CCAACTAAAG AAATTAAGCT CAATATTATA ACAGTTGATA
61651 AGTAATTAAG ATTACAATAA AGTTTCTTTT GGATTTCATTT AAAATGCTTT
61701 TTGAATGAGT TAGGCTGAGT AACCTCTCAG AAGGACAGAA AAAAAAAGAA
61751 AAGAAATTTG TCTCTCTCAG TAAAGGCTGT AGACTCAATG GGTCAATAAT
61801 TGCTCAAGTA GTAAATGCTT ATAATCAAT CAATTAATTT ACTGTAAGTA
61851 GACAGAGGTC AGTCTCTATT CAGAAATATCA TGCTATGAGT TGATCTCTGA
61901 TAGTATGTAT ATTAGTTTAA AATGAAATA TCTAAATAT CAGTTTCATA
61951 ATGAGCTAAA TGTGAATCAC ACCCATTTAT TCTCTATCAT CTCTTTTCTG
62001 CTGTTTAAAT AATTCTAAGA AGTATTAAAG TCTATGATA AAATACTCTT
62051 TTGTTATTTA TCTATATATA TGAAATAAAT TGTATATTTA TTTTCTTAA
62101 AAGATTAAAT CTTATCTTAT CTTGCTGCTT GTTCTGCTTA GGTCTGATA
62151 ATAAATTAAG AAAAAATTA TAAATTTT TCTCTTAA TCTTCTTAA
62201 TGAATAATTA AATTTTAAAT AATTAAAT TCTTCTAA TCTTCTAA
62251 GTTATTAAT TCTATCTTAT CACTTTTAA TCTTCTAA TCTTCTAA
62301 TTTTCTTAA ATATATTTAT GAGAAATTT CACTTCTT ACTTCAATTT
62351 AAGATGCTGG ACAAGCAGAA ATGAATAAAA CAGGTAAGAA TCTTAACTT
62401 TAAGAGACTG ACATATCAAT TTCTTATCTA GATAAATAAT ATAATATCAA
62451 CTTTATTCTA ACAAGATGTA AATG/AAAAA TGTATATATA GAGCACTGAG
62501 ATTAATTTTA GAAATTAAT TGACTTCTAA TAAAGAGAA TTCTCTTTT
62551 CTTTCTTAT ATTTCTTTT AGACTATTTT TTTTAAAG CTTTCTTTT
62601 TTAAGAGAA GATCTCTT TTTTCTTAT TTTTCTTAA AGATAGGAA

FIGURE 3, page 20 of 173

64001 CTTTCTTTCTT TCTTCTTTCTT ATAATGAGGA TGATTAAAAA GTTACCAAGCT
64051 TTTTATGAGGA ATAAAAATGAG ATACTCTAAT AAGTGAATA TATGTAAAA
64101 ACTTACGATA GTGCTTGGCT TATATAGGAG ATGCTCAACA TATATTGCT
64151 TCTTCAATTT CAATATTTAG TCTTAACTT TTTACTACCA AAGTAGAAA
64201 TATATGAAAT ACTTGTATG AGTGTTTTCT GATGCAAGG ATTGAACAA
64251 CTGCAAGATCA AAAATATTGA CAATAAAAAG AATGTGTCTG TACTAAACAT
64301 GTACAGACTT TTGCTCTTGT CATCATTCCT TAAGCAATAA CATATACAA
64351 TTATTATATAT GGCATTTTACA TTGATTTAG TATTATAAGT AATGTAAGA
64401 TGATGTAAGG TAAACAACAG GATATGCTTA GGTATGTGT AAAATATTTG
64451 TCATTTAATA AAGAAGTTGA GTATGCTTGG ATTTGTTTA TCTGTGTTG
64501 TTTCTTGAAC CAATCTTCCA TGATATGCGA GTTATGTCTG TATATATG
64551 GTTCTACTTG TCAAAACAGGA GAATTAATCT AGGATATCCA GGAAGCTCT
64601 TATGAATTTT GGAACATTC TCTGAGAGTT TCTATGATG TTAAATGATA
64651 GCTTTTATGT ACTAGTCAAA GATGTTGAAT GGGCACTGAA CTCAATTA
64701 CAATCTAGT AAGAAAGAA TGAAGACAGS GAAAGATGTA AGAAGAACTA
64751 AAAGTTGTTA GAGGGGTTAT ATATGAACT TCTTATGTT TAAAGATCT
64801 GGTCTCATGA CCAATCTCTA GCAAGCTAGS AAATGACTT CAGGTTGATA
64851 TTTCTACAT TACTCAGTT AAACTCTGAT GGGGATGAG AAGCAGAAAT
64901 ATACCTAATA TCTCAGCTAA AAATGAGTGG GAGAAAGGCA GACATTAATA
64951 AGATATGAGA GAAATATCCA TTGCTTTTA GATTATGGA AGTATGTA
65001 GTGAGGTTCC TGGGAAGGGA AATGAGGAAT CATAAAGTCT TAGATGAGG
65051 TACTGTCTCT TTTAGAAGT ACATGATGTS AAGCTTTTCT CTCTTTTCT
65101 TCTGCTCTTA CATCTCTTA ATAGCTCTC TTTCTCTTCT CTCTTTTCT
65151 CTCTCTTTCT TTTGTTCTCT CCTTCCTTT TTTCTCTCA CTGATCTTT
65201 CTCTCTCTTT TTTCTCTCT TCTAGCACTA TTTTCTGCT TATATTGCT
65251 CCAAAATACA TCTTCAAAAT CAATATGCT TTTGAGCTGA ACATCAAAA
65301 GATAACCAAT TCACTCTTGC ACTATTCTAA CTACACTTAA CAGATGAGAA
65351 CTGATTTGGC CCAATCTCTT TGTATTGGCT AATGATTTCT CTCTTCTGAG
65401 TTGAATGATG TGAATGCTG TGTGTTATAT GATAAGCTTA CATGAGGCT
65451 CCAATCCAGA GCTTACATCT AGGTAGAGAA GCTTCACTAG GAGGATTA
65501 TTTATATTCG TAGTACGACA CAATGCTCTT GGAATGCTAG ATCTACTTGA
65551 TAAATACCTG TAAATAAAT GAGAGAGGCG TATATCTATA GCTTATTTT
65601 GTAAATGTGT ACTCTTTTCA TACTTTAGTA GCTTACTTAA TAACTGAGAG
65651 CCAATATGCT TGGACTGCTT ATGAGGCACTA TTTTCTTCTA TGAAGCTCT
65701 ATGATTTCACT TCTGTAATTC TCAGAACTAT CTATGAGAA AACGAGGCT
65751 AGATTGCTTA AATAACTTGC CCAAGTTTAC ATAGCTAGTA AAGAGGAGAG
65801 CCAAGGCTAG TGGCTAGGTA CTTTAAACTT GGCATGCACT CTGTTGAGCT
65851 GTATGCTGAA TCCACTCTCA ACATGCACTT TATCTAGAG AGTATAGAG
65901 AAGTCTATAT TCACTCATGC CACTATGCT ATTTTAGCAT TTTGATAGAG
65951 TTATTATTA AATTAAGAAA ATGAAATGCT ATAGCACTAA CTATATGAG
66001 ATCAAGGAGG TCAGAGAGTT TTCTGGTACA CAATGCAAT GAAATGCTAA
66051 AAAGTATAAT CATCTTGGTC CTAAAACTCT ATTAGTTTCT TCTCTTCTCT
66101 TTGCATTCTC TGGTTATATA GCTCTACATT CTCTCTTCT ATAACTAGCT
66151 TTTTACTTTG ATTATCTATT TTATGATAT GATTTTCTCT TTTAAATCT
66201 ATGCTTACTC TTTTAAACTT ATCATTTACA CTCAATTTCT ATGATGAGG
66251 TTTAAAGGAA AATTTATTA TCTTCTCTTA AAGGTTCTCT TTTTATGAG
66301 AATGAGGATA TTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66351 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66401 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66451 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66501 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66551 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66601 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66651 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66701 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66751 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66801 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66851 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66901 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
66951 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA
67001 TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA TTTTAAATTA

FIGURE 3. page 21 of 173

66151 CAAAAATTT ATGSETCTAA GTTAGAAAGG AATTACATTT ACCCAAGCTC
66201 CACACAGGAT AAGAGTTGTA AAATAAATTC AAATAGTACC ATTCTGATAA
66251 TCTACTCTC AGAATCAAAAT TTTTCTATA AGCAACATAG AAATTAATGT
66301 TTTATCTCAA TTGCTTCTTT CTCTCTCTTC CTCTCTTACG ATATAAGATC
66351 TTTCTACTTC TGACCCATGT TTCTCTAATC ATTA'AAAAA CAAGTAATAA
66401 AATTAATGAG GTAAAGAAAA TAAAACTTT AAATAATACA ATTAAATG
66451 ACTTAAGTTT AAAATAAGCT TAAAGTCAAA ATAGACATAA GAATATATTT
66501 TAAATAATAA TTTATAATAA GCACATTGAC ATAAATATAG AAGATTCTT
66551 TTCTTGATCT GAAAGGCTTT ATATGAATTT TCAATAGATT GTATTTCATG
66601 GTATATCCCT TGAAGTTACT CTCCCAAAAA AGAAATACCT AATCTATGAC
66651 ACTTGACTTC TGAAGTTCAA TTAATAAGCT ACCTTAATTT ATTTCTTTA
66701 ACAACAATAG ATTTATTATC CAGAAAAAAA ATATATAAAT ATAAAGTATG
66751 AGTCTTGAAG ATAAATTTGC ACAACTGGTG AAAGCAATTA TAAAAATATT
66801 TTTCTGTGTT GTAAATTTAA CAGAAAGACA ATCTCTTTTA TATATCATTT
66851 TTAATTTTAT TTTAAACAAI GATAAATAAT AAGTTTAA ATATTATGTA
66901 AATACTATC TTCTCTAGAA AAGSTTTATC ATAAATAGTG TTTTCTGATA
66951 ACAATGTTTA TGAAAGCTTA AAGTTTGATG CCACTTAAAA AATBACAAGC
67001 TATTTCTATG GTTTCAAAAA TGTTGAGTTT CAATTTTCTT TCTTTTCTT
67051 TTTGCTTTTG TAGSTTTTTC TTTTCTTTTC TTGAGTCTCT TTTTCTTTCA
67101 TTTCTGTGAT CATAAGTTAA CACTATTTT ATTTCTCTCT CTCTCTCTCT
67151 CATTTCTCTG CAATTTTAT TCAAGTTTGG AAGAATAAG TTTCTCTCTG
67201 TTTGTTTTTT TAGACAATCT CACTCTGTTG TCAAGAGAGC TGGATCTGAG
67251 CGGCTGATC TGGCTTCACT GCAACCTGCA CTCTCTCTCT TGGAGCTATT
67301 CTCATGCTCT AGCTCTCCAA GTAGTTAGGA CTGAGAGTGC AGGCTACCAT
67351 GGGCAGCTAA TTTTCTGATT TTAGTAGAG ACAGCTTTTC AACTATTTGG
67401 CGAGGCTGCT CTGAACTCT TGGCTCTAAG TTATCTCTCT GCTCTGGCT
67451 CCAAAAGTGC TGAGATTACA GGCATGAACT ACTATGCTCG GCTCTATTTT
67501 CTTTCTATTT GGAGGACAGA TTATGCTAT CATTTGACAG TTACAAATTA
67551 TCTTCTTTAA GGAATACAG CCATGTTTTG CTCTAGAGAG AATTCTGACA
67601 TGGTATAAAA ATTAACAAG TACCTTTCTA CAAATATGCT TTAAGATCA
67651 CTGTCATGAT TGAGGTGAAC TTATCATTTG AGCTGAAA CT TTGCAACAAT
67701 TGGGCTCTTG GGAAGAGATG GCTGCAAGC TTGAGGCA GAGATTAGGT
67751 TAGGCTATG TAGGATTTT CTTTCTTACG CAAAAAGTGG AAGCTAGACC
67801 TTTTCTTTT TCTCTCTCTG GTATATATG TCTATTTCTT GAGCTGATA
67851 AGATCTCTAA ACACAGGAT GATATCATAT TCAATCTCTT AATCATTA
67901 TGAATGTTTA ATGCAATGAA TTTGTTGAAG TGGGAGAAAG AAGAGAGGAG
67951 CAAATGCTA GAGATGTAAG AACTAGTTAT ATTTACTTGA ACTGATTTCC
68001 TAATTTGCTT CCACTATTGA TCTGCTCTGT TCAATGAGG CTTTCTAGTAT
68051 CTTAAGTTTA AATAGATTG ATGCTTTTCC AATATATCTT GAGCTGCTCT
68101 ATCTGCTGCT CACTTGACTT TAATACTTGT GGCCTAATGA AAAAGGGAGA
68151 AAAAGGAAGA GATTCATTA AACTGCAAG AGGAGAAAT GCAATACT
68201 GAATTAATTG GAGCAAAAAG AATGTTTAA CTATAGAGT TACTGTCATG
68251 GGGATTGAAT GTCATAATAT ATCTGCTCTT TTTAGAGAT CATTGGATA
68301 CAAGAACTG AAAACTGTTT ACTAATACAA ATAAATAGGG ATACATTTTA
68351 GAGCTTAAAG AATAATTTT TAATTAATA TTAATAATAA AATAATATA
68401 TTAATTTAT AATAATTA AATTTATA TTAATTTAT TTTCTTTT
68451 TTTCTCTG GCTCTTAT TCTCTCTT TTAATTTT TTAATTTT
68501 TTTCTCTT TTAATTTT TTTCTCTT TTAATTTT TTAATTTT
68551 AATAATTT TATATAAT AATTTAT TTTCTCTT AATAATTT
68601 TTAATTTT AATGATTG CACTGTAAT TTAATGATG AACTATGCA
68651 TTAATGATG AGTTCTCTT TATTTTATA CTCTCTGCT TTAGCTGTA
68701 GCTTATCTG TTAAGCTGCT CACTTCAATC GCTCTGAT AATACTCTA
68751 CTCTCTGCT TCTGTTGCT TGAAGAGAG AAGGAGATG TTTCTTTCA
68801 GCTATCTCT TTTTAAAG CAAATAAT CATTAGATG TACTCTCTA
68851 AATAATTTT TTTGATTA CATAATTA TAAATATA TTAATAAT
68901 TTAATAAT TTAATAAT CATAATTA TAAATATA TTAATAAT

FIGURE 3. page 22 of 173

69301	AAAGCTACAA	AAAGAGGSGG	AACAGASTAA	ATATAGACTT	ACAAAAGGCA
69351	AGTTGCAAAAT	ACATGAATAA	TATTATGGAA	TCATGAGAAA	TTTCATTTCA
69401	TAAGAGCAAT	GAAGATAA	ATAAGATSTA	GATGATTTT	TGATTAAGAA
69451	GTTCCCTGAG	AGTCAAGCTA	AGAACTTTTA	STTTTSCATT	TAGAAAGGCG
69501	AAAGCAATAAC	ATATTTCAGC	GAGCCAGTAA	TGTCCTTCAG	AAAAATGAAA
69551	TGGTCTGCAS	AATGTGSGG	AAATTGGA	TCNTAGACA	CTAAATATAT
69601	CTAAGCAAGA	ATTCTATGAT	ATCTCAACCA	GAATGCAATG	AGAAATGAAA
69651	TGAGAGCTCA	AATCCATGAC	ATTGTACCAA	GTGTAGAGG	CATAAAATAT
69701	AACCATACAG	TGGATAGGAA	GAAGAGGCA	GTCTAAGATT	TTTGGACGAG
69751	ACCATAGAAA	CTAAGAGAAA	CGTAATGCTT	TTACCAAAAG	TATGATAGTG
69801	AGGAAGAAAT	TTTAAAGAG	ATGTATGAA	TTTTCAGAT	CTGGGTGAG
69851	TGGAATGAG	ATAAGATGCG	GGACCTTAAT	TGCAAAATAT	TGGGAATTCG
69901	AAGTTGAG	CTTGAAGAA	AATTCAGAG	TATATITAGA	AATATAGATG
69951	TCTTCAACAT	ATTGATAATA	CACAAAGAA	TAAGAGGAG	AGAGAGGCTG
70001	AAAATAAATA	GATTCATGAG	ATGAAAAA	AAACATTAAT	TTCTCAATAT
70051	GTATATTATT	CTATCCGAAT	CATATAATAG	TCAGATTTC	AGGATCAAT
70101	TCGCGCATCT	CAATTGATTT	CTCAAGGCA	TTATCTGAAA	CACTTTAATA
70151	TCATGTCTTT	ACAGTTTATG	AAACGATGCG	TCAGAGAGGT	CAAGGTCTTG
70201	ACCCAAAGCA	TAGAAATCTA	AAGCAGAGAT	ATTGGAAGAC	TTGCTCTGCG
70251	CTTTAGACTG	TAAATCTCAT	CTTCAATATT	TTATAGCTAA	CTCAATTAAG
70301	CATAAATATA	AAAGCTTTCT	ATTTCAGATA	TTAAAGAGAA	CATCTATATA
70351	TATGAATGTA	TATATATATG	TAACATGCTA	TATATATTAT	ATCCAGAGAT
70401	AATGTTCCAG	AACTCTATAT	TITAAATCAA	TAATTTAAGC	ATCTCTAGCTG
70451	CTCTTAAAT	TCCTTCAAAAT	TTTGAATCAT	CAAAATAAAT	TCATTCAGAT
70501	TTTATAAAGT	AAAGCGGATGA	GTGCAATGAT	GTGAGAAATTA	TCAGGCAAAAT
70551	ATGTAATCAA	ATTCCCAATG	ACTCACTCTT	ACGATGAGGC	ATCTCTGAAT
70601	AGCTGAGATT	TCCAAATTA	ACCAAGCAAT	TGTTTCATTA	ATCTTACTAA
70651	AAATTTAAAG	TTTAAAGGCT	CTAGTTGCA	CAAAATGGTGA	ATTAAATTTAA
70701	ATTTTAAATG	AAGAGCAATG	CTTTGCTTTT	GTATTGTAGC	ATTCTAAAAA
70751	TCGCAAGGGG	TTAAAAACAT	GATTATACAC	CTATGTTTAA	GATTAAATTCG
70801	TTTAAAGGA	CAGCTGTGCG	TTCTGATTTG	CTTATTTGCA	TCCTAAGTTT
70851	GTGTCTTTAC	AAAATTTTAC	TGTTCAACCT	GCAGATGCTG	TTTTTAATGT
70901	TTTGCTTCAA	AACTTTTAACT	CTCTTGAGTT	TCTATTTTAT	TCATGTCAT
70951	TTATATATAT	ACATATGAT	ATATGTGCAC	ATATGCATGT	ATTTTATAAC
71001	CTAAATATATA	TATGTATGCA	TAATATATAT	AAACTATATA	TAGAAATATGT
71051	ATATACATATA	GCTATAGTAT	ATACAATTCA	GTTGGTAGGT	GGCTGCTTCC
71101	CTAAAAATAAA	ACTGTATTTT	TCTCTACCTT	TTCTTTGAG	ATGGCTCTTC
71151	CTTAGTATAG	TCTATAGAG	CTGTATTAA	GGCGTTGCA	ATAGTAGTAT
71201	GTGGGCAAGA	GGACTGTAAA	TTCACTGAAT	ATTATTAGTT	TATGAATATT
71251	CATTAAATTT	CTTTGTATGC	AGCAACTCAA	CTTTGTAAAT	GGTTCAGAGC
71301	AAAAAAGCT	CTAATTAGAG	GAATTAATTA	GTATTTGGAA	AGTATACAG
71351	GGATAAGTGG	GCATTTTGA	GAGGTATTIT	TTCTCTCTGT	TGAGAAAAAT
71401	ACCTTCTAGG	GAGCTTGCAG	TACAATTTCT	GTGCATATCA	GGTAGAAATA
71451	AACCTGAGCG	TTTCATTTT	TAAGGCTGCA	AGAGAGGCA	GGTCTCTTTC
71501	TTGAGCTAG	CACAAATAT	TTTGTAGAT	ACAATATAT	TTTCTCTTTT
71551	CTTCTTGGAA	TTCAATATGT	TTTAAAGAT	GTGCTTAAT	ACCAAGCTTT
71601	CAATTAATA	TTTAAATTT	TTTAAATTT	AAATTAAT	AAATTAAT
71651	CAATTAATA	TTTAAATTT	TTTAAATTT	AAATTAAT	AAATTAAT
71701	CTGTTAGCTT	CATAATTTCT	CTGCTACCTG	CAATTAATA	CAATTAATA
71751	TTCTTAATAT	GTATTAATAA	AAGAACTCTT	TAATTAATAA	CAATTAATAA
71801	CTGTGGAAG	AGCTCTCTCT	TTAAGACTAG	CAAGCTCTCT	CTCTTCACTC
71851	CTCCTTCTCT	TCTTTCTCTG	CGCCAGCACA	GACTTCTCTT	GGACAGAAAT
71901	GATACCTTTG	CGATTGAGCA	TGGGGAACCA	GAGTAAACAC	TACAGCTCTG
71951	ATTCAGACTT	TCCAGAGGCT	CGAAGACTTG	CTCTTCTGCTA	AATCTATATGA
72001	AAAGCTGCA	CAATTAATA	CAATTAATA	CAATTAATA	CAATTAATA
72051	CAATTAATA	CAATTAATA	CAATTAATA	CAATTAATA	CAATTAATA

FIGURE 3, page 23 of 173

72451	CTTTTTTATG	TCTTTTGATA	GTGAGGCTTC	AATTTACTAA	TTGCTTGTAC
72501	TGCGAAATTA	GTCTTTAAST	CAATCATTTA	GAAATTAAAA	TTTGCTTTAA
72551	GTGAGTAATT	TAAAACTGG	CACATATTTT	TTTGATAGTA	CTATCTACTA
72601	ACTACTCTGC	TAAAGCAAAA	CATGGCTGAC	TATCTTGTGA	ACACAAATCA
72651	ATTTATTTCA	TATTTCTCTT	AAATATTTTC	TTTGCTTCTG	ATGAAATTGT
72701	TTAATTTTCA	AAGCATCACA	GSCAGATTAA	AATCTTGTAG	GATACTATTT
72751	GATTTTTTCA	ATTTACAGCA	TAGSACTTTA	TAAATASCTT	FGTGATTCAA
72801	CAATAACTTG	AATGATGCTT	TCTAACTGGG	GGTAACCTTG	GTAAATTTTG
72851	TTCATATTAA	TTTAAATCTC	TGAATTAAAA	ACTAAGACAT	GGTAATTTGT
72901	CTTATTCTTT	ATTTAAAGTG	TTTTAATACT	TTTATTAAAA	AGACTATGAA
72951	GTATTGACGC	ATGAATATAC	AAGTCTAGTG	GAATGATAAA	AACGTAGAAA
73001	ACGGCTTACT	TATTTATSCA	GTTATAGTAT	ATAATAAAAA	CAGCTTTCTG
73051	TATCTTGTGG	AAAAAGGTGA	GTTAATTATT	AATGATGTGG	GTACTATTTT
73101	AGGAGAAATCT	GGGGGAAAAA	ACGATGTGAT	ACCTTAAAT	TTACTATATA
73151	ATTAATTTCCA	AAGGGGGGAG	TTAAATATAA	ACAAATGAAAC	TCCAATAGCA
73201	GTAAAAATAT	GGGAGAAAAA	TGATGAGAGC	ACGGAAAAAC	CTCTTTCCAC
73251	CTCTTAAGTT	CAGGAAAAAT	ATGTGTGATT	ATATTCTGTG	TTGATAAGGA
73301	TGTGAGTACC	AAGCTTTTAT	TTATTTTGTG	TGAAAAATTA	AAATTTGTAAA
73351	ATTTCTATGA	AGGGAAATTC	CGATATAACT	TTAAAAATTT	CAAAATGTATA
73401	TACTCTTTAT	TTTCTTATTT	TTTTAAATTT	GTCTATCTCT	TTAAATTTGAT
73451	AAATTTTACT	CTAGAAAGGT	GTCTTACATG	TAAATTTAAA	CATATAGTGA
73501	ATGAGAGAGG	TATGTACATG	GTTATTTCAAT	CGAGCAAAAT	ATTAGAAATA
73551	CGATTTTATGC	CGATGAATAT	GATATGGGTT	AAATAAATTA	TTTTGCAATC
73601	ATATTATGGG	AAAATATGCT	GTCATTATTA	GTGAGATATT	GAGGACAGAG
73651	GAAAGGATGC	TCTTCATAAA	CTCTTTATTA	ACTTATATGG	AATAATCTCA
73701	AAGATAAATTT	GTAAATTTTT	TTTTAAAGCA	GAAAGAGACA	ATGTACAGAG
73751	CATTCTTACTC	TTTGTGTAGA	AATAAAAAATG	ATGTCTTTTT	GTGTCTGTGT
73801	GTGTCTGTGT	GTGTCTGTGT	GTGTCTGTGT	GTGTAAATGTG	CTTAAACAT
73851	CTTTCTAAGG	ACACACAGAG	CACAGATTCA	CTAGAACCAT	CAAACTCTCT
73901	CTGGGAGAGT	AGCTCAGTTT	CTGGCATTGA	GCTGGGAAAG	AGATTTCTTT
73951	TTTATATCTTT	TGTGTATGTT	GAATTTTTTA	GATATCTCCC	ATATCAAAAT
74001	CCCTTGAAGT	AAATCTGTCT	GAAATGATTT	GCTTTCTAAT	CTCTCTCTCT
74051	CAAACTTTCTG	GCAGAAAAAT	GGAAGACAAT	AGCATATGAT	TAAAGAAAAA
74101	CGACGACTAA	AATAAATAGG	AATCAACAAA	ACAGTCTCTC	ACTAATCAAG
74151	CTTTTCTTCT	TTTGTCTGT	TGTTGAGGAA	CTCTCTGATC	TTCTGATCACT
74201	TTCTTGAATTT	TAGACTGTCT	AGAAATTAAT	GTGACAGCAA	AGGGGTGCTA
74251	GACAGACTTG	AAATGTTAAC	AAAAGGGACT	CTATTGTCAT	GTTTTAGAAC
74301	TTCTTTTCTC	TGATAACTAG	GTCTTTGACA	AATTCACAAG	CCCTTTCTTG
74351	TAGTTGGATT	TTTGTCTGT	CTGCTTTTCT	TTAAGCTGTT	GTCTTACCTC
74401	AAGGCTGATG	TGCAAAATGT	GAGCAACGCT	GATAGTGTCT	GAAATGAAAC
74451	TTCTCTGATC	AATAAGGGGC	ACGGCTTAAT	TCAAGCTTCT	CTCTCTTTGA
74501	CACACACACA	CACAAACAC	ACACACACAT	TTAAAAAGAA	AATGAAGTAT
74551	ACAGGAAAGC	AAAAACATTA	AATGCTTTTT	AGTAGTTTTT	AGTAGTTAAA
74601	ATGAGGCAAG	GGAGAAATA	AGTATGANTA	GGAGAGATTT	TGTTATAAAA
74651	GAAAAAAGAA	AGTTCTGAAA	TCTCAGCTAC	TGAGGAAGTT	GAGGATAGAG
74701	GATGCTTTTA	GATTAAGGTT	TTAGAGAGAG	TTTAAAGTAA	ATAATAGAGC
74751	TTATGCTTAA	AAATTAATTT	ATTAAGTAA	TAACTTTTCT	CTCTCTCTCT
74801	TTTCTGATTA	ATTTTAAAG	TTAAATTTCT	AAATTTTCTT	GAATTAAGAA
74851	GCACAAGGTT	GCTCTTAAAT	ATGATTGTAT	CATCTCTTCT	CAATTAAGCTG
74901	GTAAAAAGAG	TGAGAGCTTA	TTTCAAAAAA	AAAAAGAAAA	AGAAAAATAT
74951	TGAGATTTTT	GTCAATTAAG	TGAAGTAAAA	TTCTTTCAAT	TATTTGATTT
75001	TGATCATATT	CATTCTTCAC	TATGTATTGA	GCCAGCTCTA	TGAAAGACAG
75051	TAATATGACC	ACTTAAATTT	GTCTTATCTA	CCCCCTCTAT	TAAATTCAT
75101	AAAGATTTTT	TCTTATCTTT	TAAAAAATCT	GCTTCTTATG	AGAAATATGT
75151	GTCTCTTAA	AAATTAAGAA	TATGTATTTT	TATTTCTTAT	GAATTAAGCT
75201	TTTCAGGACA	CAGGAAAAAG	CTTACCTATA	TTAGAAAGCT	CACAGAAATG

72451 72501 72551 72601 72651 72701 72751 72801 72851 72901 72951 73001 73051 73101 73151 73201 73251 73301 73351 73401 73451 73501 73551 73601 73651 73701 73751 73801 73851 73901 73951 74001 74051 74101 74151 74201 74251 74301 74351 74401 74451 74501 74551 74601 74651 74701 74751 74801 74851 74901 74951 75001 75051 75101 75151 75201

FIGURE 3, page 24 of 173

75691 GGCTTTTCTT ATTCTTTTTC CTGCTTCTT AAGTTCTTTC TGCTTATAT
 75692 CAATAAATAA AAGTCACTGT AGATATTAT GTCAAGATTG TSACATTTTA
 75701 ATATTTTTTA AATTGGGTTT TATAGCTTGT ATGTTTATAT GGCTATATAT
 75751 GTTTAACAAT TTAATAATAT AACAGCTTTA AAAAAATTAT TTGGCTAACC
 75801 AAAATATGTT GGCTGAAGTT TTTTGGCTTA TTAAAGTAA ATTTATTTTG
 75851 GGTAGAGTAA ATGTATGTAT GATGCTTCAAT AACATIACTAA AATATCATGA
 75901 ATTTGGGAAA ATAAATTTAA ATTTGAAACT GCACTCTGCTT AAAGATATTT
 75951 ATTTTACAT TGGAAATTTT TACAAATGTC TTTGCTTTT TAAAAATAAC
 76001 TCATGAATTG ATTTTTTAAAG GATCTGTAT TTAAGCTTAC ATTGTTTATT
 76051 CCTGTCAGT TTTGATCTGG TTTTCTTACT TGGAGTAAAT TGTAAAGAGA
 76101 GTTATTTTAT ATGCTTGGAG ATAAATCTAC TGGAAAAATA AGTCTATTCT
 76151 ATACATTTTA AAGAAGATTT ATGTATCATT TTGATTTCT AGTATTTTCT
 76201 AATAATGAC TGAAGCAACT TCTATATTA GATAGATTT GACCATCTTT
 76251 AAATATTTT AGATAATTGG AAAATTTATG TGTATATAAA ATATTTATGA
 76301 GGAGGCTTAA TGGAAATTAAG GCAATCTTCT TTGAAATGA TTTCTTTCTT
 76351 AATACATATA TAAATATTA GCAATTTGTT CTTTGAATTT TATGATCAT
 76401 CTAGCTATAA AATTAAGAG GTTATGCTT GTTATGCTT CTGCTATTTC
 76451 TCTTTTATAA AATGAAGCTT TCAAGACAT CATAGTCACT TTTCTTTTCT
 76501 TATTTCTTGA TTTTGAATG TCTGAATGA GTTTCTCATG AAACTTTAAG
 76551 GAATGCTTAA TTTGATGTA TATATCTATT GGAATATTTT AGCTATTTTT
 76601 AAGTGAATAA TGAAGAATA AGCTAATAT TTTGAAAGAA AGAAATACTA
 76651 AAGAGGAAGT TTATAAAGAT TGTATCTGTA TGTAAATCT TTTCTTAAGA
 76701 GAGAGGAAAA AAAAGTTTGA GAAAGAGAGA TTTTACATAC ATAGACTCTT
 76751 GTAGCATCTT CATTAATCTG CTACATCAA TTTGTTATGG TATTTGTCTC
 76801 ATTTTCTTAA GAAAGGAAAA ATAAGTAAT TTTTAAATCT TGGAGAGCTA
 76851 CTATAGTAGT TGAAGATAG TATGCTAGCA ATGAAGGAAC TAATAAGCAT
 76901 AAGTAGTAAA AAAAAGAAAA AGCAAGAGAG AATACACACAC ACACACACAC
 76951 ACACACACAC ACACACACAG CAATGCTCTT GCTTCTAGAT TAATTTTCTA
 77001 CTAGGTATTG GAGCAACTA AGAAGGACTT ATAGGCTCTT TAAGTTCTCT
 77051 TGGTCACTTA TTTCTCTTAA CAAATTTCTT ATAGGCTCTT TCTCTCTCTG
 77101 CAATTTTGGT CAATTTTCTG TCTCTATGGA TGGATCAAGC TCTGCTCTCT
 77151 GTATTTTCTA AATATTTCTG AATTTTCTGG ATGCTTTTAA CTATCTAGCAT
 77201 GGTGACAGAA ACTAGAAAAA AGCACTCTGT GTAACTTTGA CTGAGTAAAT
 77251 GGCAGTTTCA CATACTGAAA GTCAATCTGT TGTGCTGCTT ATTTGCAATT
 77301 AAGAAACTAT ATCTACTCTG TATATGCTTA AGTGGAGAGC AAATGGCATA
 77351 GTAATAACTG ATAAAGATGG ATATAGATAC AGGCTTTTGG GGTCTCAAAAC
 77401 TCATCAATTC AATGATTTTA AAAATGTTTC AATAATATTT CTAGTGTCTA
 77451 CTGAGTACTG AGATGCTTCT TTAATGAATC ATGCTCTCTG TCTTAAAGGA
 77501 GCATACATTC ATTTATGAAA CTAAACTTGT AGCTTTGAGA GAAAGTTATA
 77551 GAAATTTCAA GAAATAGTC AGTTGATGAG AATTTTAGGG CATGATTCTT
 77601 GAAATTTTAA TAGAAGAGTG GACAAAATTT AGAAGAGAGA ATCATAGTAG
 77651 CAGTGATGGA TCTCATATG TCTGCTCTAT CCAATGATTT ATAAATACTT
 77701 TTCAAGATGA CATGATGAAT GTCTTATTTT ACTGCTGAGG CGTTCTTCTT
 77751 CTTCATTTT AAAGACTTGT TTAATTAAT GTTCTTATTT TCTATAGAA
 77801 ATATTCTTGT TTAATCTG ATTAATTAAT TTAATTAAT TTAATTAAT
 77851 ATTTTCTTGT ATCTCTTAT AGTTCTTAA GAAATTTTAT ATTTTCTA
 77901 TATTTTATG TCTCTTATG ATTTTCTTAT TCTCTTATG TCTCTTATG
 77951 ATAAATTTT TAAATTAAT TAAATTAAT TAAATTAAT TAAATTAAT
 78001 AATTTAAT TTAATTAAT TTAATTAAT TTAATTAAT TTAATTAAT
 78051 GGAATTTAGT CTTTAAAAAG AAAAAAGCTT GAAATATATA CACTGAGTTC
 78101 TAAATTAGTG AATGTTACAA TGGTGTATCT GTTCAAGAGA ACATCTCCAG
 78151 TCACAGCTTA AAGTTTGTGG CATAGGCTTG TCTTATCAA TTTCAATCTT
 78201 GGTAAATTTA TCAGAAATGA TCTAAATCTC ATAGTCTTTT TCTCACTGCT
 78251 TGGCAAAAGC ATAACTCTG TCTCACTCTG TCTCTTATG ACCTTCTCTG
 78301 TAAATTTT AATCTTTT TCTCTTAA AATTTTCTT ATTAATTTAA
 78351 GTTATTTGCT GAAAGATGT TATAACAATA GCTTATATCT ATATATATAT

FIGURE 3, page 25 of 173

78751 AGGAGGAAAA AAGTTGAGAG TTATTAGSAG AATA GAAAT ATCAGAATTA
78801 AAGCAATSTT TAACAGTAC AATTAGGAA GGGGAGAGT TGTGCAATAG
78851 CTGAGAAGLA GCTGATCTG TAGACTGAAA TACGACATG TACTCTTATC
78901 GAATGCTTCA TCTGTGTTG TCTTTGTATG ATGCACCTCA TACTCAGGCA
78951 GATTTTTCG CACTTTAGA AAGTGATAGG TAAATATTST TAGATTAAAA
79001 TTAGAGTGGG TGACTTAGAT AAGAGCACTA TGACTTAGTT GACTAAGAG
79051 TTGGGATCTG ACTGCAACCT ACAGTTTCTT TACTGTAAAT ATGTGCTGTA
79101 TAATGATAGA GTTGTTGTTA AATGTTGAAA GTGCTTAGTA GAATGTCTGA
79151 ACTTAATAAA TGTGAATGTT GTTCTGTAA TCGAATCAJA TATTTTGACT
79201 TTGGGGAADA TTTTCTTTA GTGTGTGAC CAGACAGAAA TCTCTTTTCT
79251 TTAGTTACAG TTTGAAAAA AATTGAA-AAA GTTGAGAAA GCTTTGATAA
79301 TCTCATCATA TCTTGGGTT GTAAGGAAAG AGGGAGSTTJ AAAATGTAAG
79351 CTGGAAGTCA GAAGAAAGAA GATATTTCA GAGGAAAAJ TGGAAATGTT
79401 GTTAAAGCAG CCAATCAATA GATACTCAGC ATAGATATJA GAAAAATCTA
79451 TTCAATGCTT ACACTAGAAJ TCTCTCACTT AAGCTTGCTT GAGTAGCTTT
79501 CTAATCAAT TCTTATATA GACAGGATA TAAATGTAJ GGGAAATCTA
79551 GATGAAGCAA AAGTTTAAJ ATTCAATAG TCTCATATJA CAGAGAGAGA
79601 ATGTGTATTG TACTTTTTCG AGAATTATAA AAACAAGCTT ATTTTGTCTG
79651 TAATGTATCT ACCTGACTCT TAGGTAGAAC ATTTTAAAJ GGCATTTATA
79701 AATTTAGAAA TCAAGGCAA CCAATTAJA TGTAGAGJA ATTTTAATTA
79751 GTGTGTATTG TACAAGTAA TAACTGATTT TCTATAATG AAAGAATAAT
79801 ACCTGTGTGG GATCTTTCTA AGGAAGTTCT GTTAGAATGJ ATTTCTAGA
79851 GAAATCTTAC GTGTGTCTTT GAAAGAGAJ TATTTTAAJ TCTAATAAG
79901 CATATATTTT AGAGGAAAA TCTTTTTCAG CAGAGTGTG CAATGAAATA
79951 AAATATGAA GGCAGCTTCA TTTCTATGGA TACCAACACT AAACATTTCT
80001 GTGTGAATTA GTTTAAAGAG AAGTGATTJA CTACTTTTGA TGGCATTAAG
80051 AATACTAGTA TATGCTCAG AAGATATAT CTAGAGAGAT AATGAGAGAG
80101 GGACCATTA TGTACTTTCA CTGAAATAA AAATTTATAG TATTTTGGAG
80151 TTTTATGCTT AACTAAGTGA TTATTCTTTT AAAACCTACA AGGCATAGAG
80201 ATTAAGGGGA GCGAATAJA TTCTAGGCTT CCGCTAAAT TACAGGAGAA
80251 ATAAGCAGCT CTGAAGATTG AATAAATAAG ATGCTTCTCA CACATGCTGA
80301 TTTTCTTCAA ATGCAAGGAG GATTTTATTTG AGATTTATAG AAATGTAAAT
80351 TAATTTAAAA TATTTCTTGA ATGATGCTTT CTGAGAGCTA ATTTCTTCTT
80401 TAACTAATTT ATGTAGAGG AAGTATTTT TTTTCTTTT TCTAATGAG
80451 ACTTTTATTT GAAATTTAG CAGGTGCTT ACTAACTAG AAAATGTTTG
80501 AATCCCCCTG GTTAATTTT CACTGAACAT CTCACTTTT AAACATATGT
80551 AAGTGTTTTT TGAAGATAAA TAAGTATTTT AGCTAGCTAT CATAAGCTAC
80601 ACAAATTCAT AGCATTAAGA AATTATGCTG CACATGAGCG TACAATGCTT
80651 TAAATAGTGG AAAATACTAA AGCTTTTCTA CTTAAGTGAC GTTATTATCT
80701 TTTATTTTCA GTACACTCT TATGCAAGCT TATTACATAT TCTTACGAG
80751 TTTGTATCTT TTGAATGTTT TAATAAGTGG GACTCTGAAG GCAATTTTTG
80801 GCAATTTTTG TGAACTTGAG AACAATTAGT GGAAGCAAAAT ACACATTTCT
80851 ATCTAGAAAG TAATTATTTA TCAATTTTTG ACATTTACAT TGTTTCAAAA
80901 TTCTCTAAT TTAATAATTT CAAAGCTTT TCTTCTCTG ATATTTTTTT
80951 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81001 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81051 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81101 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81151 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81201 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81251 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81301 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81351 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81401 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81451 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT
81501 TTTTCTAAT TTTTCTTCTT TCTTCTCTT TCTTCTTTT TCTTCTTTT

FIGURE 3. page 26 of 173

81901	TTTATTGAAA	CTTGTGTAAA	TTSANTCAGA	CTTTAAGTAG	ATAATGCAAA
81951	CTTATAAAG	AATTCAATTIA	TAAGGCTTTT	GGTATAGGAA	ATAATTTATA
82001	CAGAATGTAA	TGCTTTATCA	GATTTGCTCG	ATTATATGCT	CTTTTCTAAA
82051	AACAATACAA	CTATGGGTAT	ATAAATATAT	GTGTATATAT	ATATGTATAT
82101	GTAGATAGCT	AAATGTAGAT	ACTTATACAT	ATATATATGT	ATATGTATAT
82151	ACATATATAC	ATATATATAC	GPTTATATAT	ACCATATAGT	ATTATATATC
82201	ATATAAAGAA	TATGTGTGTG	TATATATATG	TGTGTGTACA	TATAAAGCAAT
82251	ATATGTGTGT	ATGTATACAT	ACAAACTTTA	AGTTACTTTT	TAAAGTGAGA
82301	ATTTCTTCAA	CATTTTTTGA	TTGTTGTTTA	TACAAAAAAT	AAATGCTGTC
82351	TAAGTTTGAC	TAAAGAATAT	AAATTTCAAT	AAATATATAG	CTTGGCTGCT
82401	TATATCTGGT	CTGTCTGAAT	GTATATATCT	GGCTAGATAT	TCAGGGAAGT
82451	CTCATCCGCT	CCAGAAGAACT	TTCTCTGACT	TTCTCTGACT	TTCAAGGCTCT
82501	AGTTCTCATC	TTTTTTCTAG	AAACAATATA	TTAAAGCAAT	CTTCTCTCTC
82551	TTCAACATAT	ATTTATCTAG	CTCTTCTAT	GTTTTATCTA	CAACAATATCT
82601	CATCTAAACA	ACAGAAGAGA	AATAAGTTGT	CTTTACTTTT	CTCTCTGTAAT
82651	CTAGTGTAG	ACCATATCTG	CATATAAAAT	CTCTTTTAA	AGTTTATATA
82701	AACTTACTAT	TAATCTAGAT	AACTATCTCA	CTTTTCTCTC	TGCTCTAAAGTA
82751	CATCTAGCTT	ATTGAAGATA	AACTATATAT	CTCTAGTTCT	CATCTAGCTG
82801	ATCTATATGA	ATTGGATGCT	TTTCTCATAT	AAAAATCTCT	ACTCAATGCT
82851	AGTTTCTTAT	CAAAAACTA	CAATACTTGA	CTATATTTGT	CTTAAAGCAAT
82901	AAGAATTTCA	CTCTCAATTT	AACTCTCTCT	AACTAACTAT	CTCTAGTTAT
82951	TCTTTTGTGA	CAAACTCTAG	CTCTCATATG	ATCTATCTCT	AGGATATAGG
83001	GGTAAATTTT	TTTTTCTCTT	CATCTCTCTT	AGATATATTA	TGAAGCTCTAA
83051	CAAACTAGTA	CTCTCTCTAT	CACTCTCTCT	TACTATAGAA	CTCTCTCTAT
83101	CTAGATATCT	TTGTCTCTAA	AACTCTCTAA	CACTATATAT	ATTTTCTCTG
83151	GGGATTTTCA	GGGAGAAATG	CACTAACTTA	CAAACTCTCT	TGGGATATTT
83201	TCTTTTCTCT	TCTATCTCTC	AACTCTCTCT	CACTCTCTCT	AAAAAGCTTA
83251	TATTTATTTCA	CTAGGAACTT	CACTAACTAT	CACTCTCTCT	AAAAAGCTTA
83301	ATCTATTTAA	TAGACTAATG	CACTAACTCT	CACTCTCTCT	AGTAAAGCTA
83351	CTCTCTTTTCT	CACTAACTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83401	ATCTATCTCT	TTTTCAATCT	CTCTAACTAT	TAACTCTCTA	AACTCTCTCT
83451	TTCTCTCTCT	AACTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	AACTCTCTCT
83501	TGATCTCTCT	AGTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83551	AACTAAATAT	AACTAACTCT	AACTAACTCT	CTCTCTCTCT	AACTAACTCT
83601	TAGAAATAT	ATTTTCTCT	CACTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83651	AACTCTCTCT	AGTAACTCT	CACTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83701	CTCTCTCTCT	ATTTATCTCT	CACTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83751	ATCTATCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83801	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83851	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83901	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
83951	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84001	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84051	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84101	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84151	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84201	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84251	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84301	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84351	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84401	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84451	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84501	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84551	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84601	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84651	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84701	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84751	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84801	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84851	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84901	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT
84951	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT

FIGURE 3, page 27 of 173

```

85051 TTGTTTTTCT AAUAGCTATT CAATCTAAAC ATCTTTAAAA TAAAAGTAA
85101 GATCAACAG TGTCAACAA GATTCTAAT TAAAGCTTC TAACTGAAAT
85151 ATGTGGGTAA ACAAACTATA TTAAATAAAG AAAATTGGTA AACTTTTAJA
85201 TTTTGTCTTG TTTTGTCTTG TTTTGTGAGT GGAGCTCTGC TCTGTTTJ
85251 TTTTGTGAGT GGAATGAGT GATCTGAGT GAGTGAAGT TTTTGTGAGT
85301 TGGTCAATAT GATTTTCTG CCTCAGCTC CAAATAGCT AGGATTAJAG
85351 TGGCCCAATA CCAAACTGG CTAATTTTTT TTGATTTTTT AGTAGAGATG
85401 GAGTTTCTTG ATATTCTGA GGTGGGTCT GATCTCTTG AGCTGAGTGA
85451 ATTCACCTGC CTCTGGCTGC TAAAGTCTA TATTATAGS CATGAGTGA
85501 TGTGCCGTGC CTCTTTTTTT TATGTAATAA TACATTTT TAAATCAAG
85551 TATATAGAAA ATATCTCTG TTCTAAAGAA ATAAAAAATA TTCTTTTGA
85601 AAAAGTCTTA ATTTTGTCT TTTTGTCTT ATAAAAAATA TTCTGAGATA
85651 ATCTTAAATA GAAAAATGC TATAAAGTAG GAAGTCTTG ATTTCTGGA
85701 AGAGTGTAT TGTGGGATC ATTAGATTC CAGAGAGATA GTTATTTCCA
85751 GGGCAATGTA GATTTATGA CATAAATTC TATATTTAT TTAGAGTCAA
85801 AATTAATTC TTCAAAATG ACTCTGTCT TAAGATTC ACAAGAAGTG
85851 CTCTTCTAAG AGTCTCTAAG ACTTTGCTAA GTCTTAAATA CAGTGGCTTC
85901 TCTATAATTC ATTTTCTCT TGTATTTAT TGTCTTAT TTAAGGACAT
85951 TACTTCTCT TGTCTTCTCT TTTCTCTCT TGTCTTCTA GCTGATTTT
86001 AAAAGTCTTA TTTTAAATTC TGTCTCTCT TAAAGTCTA TGTAAATTC
86051 GGAAGTCTCT TTTCTCTCT TGTCTCTCT GGTCTCTCT CAAATATTC
86101 ATTTTCTCT TGTAAATTC AAATGTACAG ATCTAACT GGTCTTCTCT
86151 CTCTCTCTCT GATCTCTCTA TATTGAAAT CTCTAAATC CTCAGTCTCT
86201 CTCTCTCTCT AAAAGTCTA TAATTAATTC AACTATTTT TTTCAATCT
86251 TTTCTCTCT CATTCATTA TTTAATCTTT GCTAAGATC TTAATTTCT
86301 TTTTAAATTC TTTTATCTCT TTTATCTCT TTTTAAATA STAATTTCTA
86351 AAGTGTCTCT TTTCTCTCT TTTATCTCT TTTTAAATA TTTTCTCTA
86401 TTTTCTCT TTTCTCTCT ACTCTCTCT TACTTTCTA GATCTCTCT
86451 TTTTCTCT TTTTCTCT TTTTCTCT TTTTCTCT TTTTCTCT
86501 TTTTCTCT TTTTCTCT TTTTCTCT TTTTCTCT TTTTCTCT
86551 GGTATTTCT ACTCTCTCT ATAAAAAGG TATCTCTA GATATTTCT
86601 TGTAAAGTAT AAATATCTCT ATCTTTCT ATCTAAATC TATTTCTCT
86651 TTTTATTTCT ATAGTCTCT ATTTCTCT AAATCTCT ATTTCTCTA
86701 TTTTATCTA TTTTCTCT TTTTAAATA TTTTAAATA TTTTAAATA
86751 TATTAAGCT TAAATGGA AAATATAAT GATCTCTA TAAATCTCT
86801 GGTCTCTCT TTTGCAATA GGTCTCTCT AACTTCTCT CATATCTCT
86851 ATGAGTTTTT AAGAGAAAGT AAGAGAAAGT AAGAGAAAT AACAGGAAAG
86901 GGAATGATC CTGGAAGCTA AGTCTCTCT CTAGGAAATC TTAGAGCAAA
86951 GAAGGCTCT CAGCTCTCT AAGCTCTCT TAAAGCTCT AAATGAAAT
87001 AATCTCTCT GTGGAAGCT CTCTAGGAT CCAATCTCT GATCTCTCT
87051 TAAAGTTTT TACTCTCTCT AGAAGTCT CCAATCTCT TAAAGCAAA
87101 ATTATTGAAA AAAAATATA GGTCTCTCT AACTTCTCT GTTCTCTCT
87151 TTTTAGCTCT ACCATTCTCT TAAATCTCT CACTCTCT TTTCTCTCT
87201 TTTCTCTCT GGTCTCTCT TTTCTCTCT ATCTCTCT CACTCTCTCT
87251 TTTCTCTCT GGTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87301 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87351 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87401 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87451 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87501 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87551 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87601 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87651 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87701 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87751 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT
87801 TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT TTTCTCTCT

```

FIGURE 3, page 28 of 173

88201 GGCACGGGTT CTTAATCTTC TSTTGTGCGG TGTGTGTGCG TCTTTGACCA
88251 TTCTGGTSA A GCTTTTCAAG CAAACTSAG AATAAATTTT TAAATGCGAA
88301 AAATATAAAT CATAGGAAAT GAATTGACIT AATTAAAGAA TTAATTAAAT
88351 GATTTTCAAA ATATGATATG AAGTTTATSA CATATAAATA AGTTTGCTTC
88401 TTCAATAACA CATTAATAAA GAAATGFAA GATAATGATT TCAAGAAGAT
88451 GACATGATAC AATAACAGTT TGGGATATCT ACAACATTCT AGTTGATACA
88501 AAGCATATGT TATTTCTTAT TSGCAACAAA GGTGTAGAAA TTTTAAATCT
88551 CCTTAGCTA AAAATTTTTT CTTTCCAAAT TAATGGACGC ATTGAACGAC
88601 AGTTAAGTCT CTGACCTAGG TTAATTTCAA AATAAGCTC TSTTGAACA
88651 TASAAGAAAT ATTTASATSA CTTCCTCTTA TTTTATGCTT ATGTTTTAC
88701 CTGAAAGAT AATTCTATTT AAACATCTAT GAGAGAAATCA TAGACAAAA
88751 TAAAGAGCTC ATTAACCTGC TTSFATTTCT AAAAAATGTA AGCTACAFAG
88801 TSGAAACAA CAAATATCTT AAGAAAAA AATAAATTATT TTTTCTTAA
88851 AATCACTAGA AATTTTATTC TASTGTATAA AATAATATTT TTTTCTTCT
88901 GCTGGAAAGT TCAATGATTT ATAGGCTAT ATTCTTTTGA ACATTTTGA
88951 GATAATATTT TATATCAFGA ATTATTTSTA CAATTAACCT TCATTTTAGG
89001 CAAATATAAC ATCAATTAFA TTTAGAAATA DTTTACTTAT SAATATAAAA
89051 TGGTTTTGTA TPCATAACTC ATATACATGA TGTAAATAT TAAAAATTTG
89101 TTATTTATTA TAATAATTAA TCAAGCTTAA AATGAGAAA TATAAATAT
89151 CAAATATATA AGCAATTTGG CTAGAAATCT GAAATAGGT CTTTACAGC
89201 TTTCTTACAT ATCAATTTAG AGTTTCTAAG AGGTAGAGAA AGCAATTTCT
89251 AAAAAATCTT TTTTAACTTT TTTGAGATAA TATTTTATAT CATGAATTA
89301 TTTTACAAT AACTTTTATC TTAGGCAAT ATAAATTCAG TATATTTAG
89351 AATAATGCTT CAGTTAGAAI AATGTTTAT GTGATGTACA AAATACAAAT
89401 TATGCAAAA AGGTGACAGC AGGAGAAAA CTAGGTGGA ATTTAATATA
89451 AGGAGAAAA GATAAATTAG TAAATTAATT CTCTAATTTA TGTATTTAG
89501 CTTTITTATA CAACATTTTC CTAGTAGAAT AATACATAAT AATATAGTAC
89551 TTTCTGAAA AATAACTTTG CTTTATAAAG CAGACCTGA ATTTCTATT
89601 TTATTTTAAI CTATTTTGG AAAAAATTA ATAAATTCCT CTTAAGGAAA
89651 AGGTIAAATA TAATTTATA TCGATTAAGA AAGCAGAGC ATCCAGAAAT
89701 CTGATGAGCC TAAGTATGAC ACCAATGAGC TCTATGCTG TGACATGCT
89751 ATGCTTGTAA GAGTGTGAG GAAATAGTCT GTTGTGTTG TCTTGTCTT
89801 TTTAACTTGG CTAGAGGTT GAATACAAAG GAATAGTCT TGGAAGATTC
89851 AGAGGGGGA AAAAAAGCC AGTTAAATTT TAAAACTGGA GAATGAAAA
89901 TATGTATTTA TTATATATG AAAAAAGAG AAGATATAT CAATGAGTT
89951 TCTTCAATTT TACTGTATTT TCCATATAAA TATTGAGAGG CATAACTTTC
90001 TTTCTCTCTT GTTCCGAGCT GTGAGAAATT GAACAAAAAT AATTCCAGG
90051 TGAGACATTC TCCATGCAAC CCAAAAAAC TGTCAAAAC AATTIAAATA
90101 CTTTGAAGAA TTAATTAAT CAAACTCTCT TACATGTTA AACATATCTA
90151 TTAATTTAC CTTTAACTTT TATAAATGCT TTAATGTAAT TCTTATATCT
90201 CTGTAAATTA TCTCTATAAT AGGTGTATTA TGTAGTTCA TTAATTAAAT
90251 ATAACTTTAA CTGGGAAT GTTTTATAAI TTATTTAAT TTTTTTGAC
90301 ACACTTTATG GGTATGTTA ATTATCTGAC TCTTAAATC ATTTTATCTA
90351 TTTTAACTG AAGCTGAGGC AGTTCTAAG TCAATTTAT CTTTAACTCT
90401 ATCAAAATG CTAAGCTCT TATTTCTT TAATAATA TATATCTAA
90451 AATTATGCA CTTTCTTTA CTTTCTAAG TTTCTTTCT AGCATTTCT
90501 TTTTCTTCT GATTTTAAA GTTAACTTT AGGCTTTCT CTGCTTTCT
90551 TTTTCTTCT GATTTTAAA GTTAACTTT AGGCTTTCT CTGCTTTCT
90601 ATTATTTAT TTTTCTTT TGTATAAT TTTTCTTA TTAATTTAA
90651 TGTCTTCT CTGCTTTCT TGGCTTTCT AAGCTTTCT TCTGCTCT
90701 AATGATTTTA AAGTTTCT CTTTATCTCT TCCATGTTA TGTGTTGAAT
90751 CCAGATTTGT CATTCCTTT AATTAATCT ATTAACCTTC CTAGGCTATC
90801 TAACTTTCTA CTGTAAGTTT TATGTTTGA ATCAACAAG CTTTCTTTCT
90851 CAGGTTTTA GTAAATATA AITCTTTAT TATTAGAAAG ACTTACCTAT
90901 TTCTATTTA CAATTTATTT CATTTTATCT TATCTTTTA CCAACTCTCT
90951 AGGATTAAT TTTTCTTT TIGATTAAAT CTATTTATCT ATTTTTLAAT

FIGURE 3, page 29 of 173

91351 TTTCAGGCTA AATTAGGACA TAAGCCCGAC AAGAGAGAGG ATTTTGTGTT
 91401 ATTTTATATTA CTAAGGTATT CTGTGAATCT AGAGGATAT CTTAATATTTA
 91451 ATTTTATGCTT TAAAAATGGT TACTGAATGA ATGAAATTA TTTATTTTGT
 91501 GCTTTGTATC CCATTTCCAT ATTCTTAAAC ATTTATGWA GTGTGTTTAA
 91551 AAAAAAGGTG ATCGAAAGTC TTAAGTGGCT AGATCTTAA TAAAAAGAAA
 91601 GAGGAAAAAG GAGA AAAAGG AAGAAAGGAA AGTAAAGAA AAGAGAAAGAA
 91651 AAGGATGCGA AATG AAGGGG AAGGAGGGG AGGAAAAAGG AGGAAAAAAG
 91701 GAAAGAAATA TAAGGACATT GTTTCAGTC TAAAACTTT AATAAAGTA
 91751 GTTGTCTCTG AAAA TCTTTC AGAAAAATTC TCAGGAACTG AGATATTGTC
 91801 TTCTGTGCTT TCAATGCAA AAGAGAGGAA GSAAGGAAAG AAGGAAGGAA
 91851 GSAAGGAGG AAGGAAAGG GSAAGGAGG AAGGAAAGG GAAAGGAGG
 91901 AAGGAGGAG AAGGAGGAG GSAAGGAGG AAGGAGGAG GGAAGGAGG
 91951 GSAAGGAGG GSAAGGAGG GSAAGGAGG GSAAGGAGG AGGAGGAGG
 92001 GSAAGGAGG AAGGAGGAG ATATGCTGT TAGGTTTGGG TGTGTGGAAT
 92051 ATTTGCTTTGT TAATTTTCATA TCTCTTTGT TCGGTGCTCA TCATTTCTAT
 92101 AATCTTTTGA GTCAATGAA AGTTATCACA AAGAGAAACA GCAA TTTGTA
 92151 AATTAATATC AGAAGATGCA TTTATTTGTA TGTGGAAGG TTAATTTTGA
 92201 AAGGAAAAAG AATTATAAGG AAGGAAAAAG AAGGAAAAAG AGGCAATTTGA
 92251 ATCAATAAGA CTACTACATP TAATAATGTA TAATGATGA GGAATCTTTT
 92301 ATTTTCAATT CATCTTTATG TCTTTGCTAT AGCTATTTTA TATTTATCAT
 92351 GTACACACAC AAAAAAATAT TCTTCAATCA ACAGCTTGAG TAGGCACTGA
 92401 AAAATGAGAA ACTAATGAA ACTAGATGAG GCAATAAAAA CTTAATCTAT
 92451 CTATCTGTA TGAAGAAAT ATTTTCTTAG ATGAAAAATA TGTGAAGCAT
 92501 GAAAAAATTA ACTCTGATAT CATTTCTAG CATATGGAAT TTTAAAACTA
 92551 CAGTGAAGA ACTTAAGACA CATACACAGA AGCCATAACA AAACCTTAGG
 92601 GTACAAAGAG TTTATATATG TGTCTGTGCT ACCCACAGG ATTTCTGCAA
 92651 GGGCTATGAA ATAATGAGGT CCAAGAGATA TTTGCTTTTC CTTCTGCAA
 92701 GTAAAGTCTA ATAAAGGCTG TTTAGTCTTT AGTGTCTTTT AAAGAATTTT
 92751 CATTTGTAATA TATTTTATAT TATTTCTAGA GATTATAATT TGAAGTTTGA
 92801 CATTTAGCTT TGCTCTTAG GTAACTATT CTGTAAAGCA TAAAGGCTGT
 92851 GTAAACATA AAGGCTGCTG CAAAGAGGCT AAGAAATAAA AATCAGATA
 92901 AGTATTTGCT CTTATGGAAG GTAGGCACTT TATAGACATT TGTGCTATTT
 92951 CTTCTCTGAG CATCTGAGG AGTACTTCAA GTAGTTCTTA TGAGACACTG
 93001 GGTCTATGATA TAAACATTT TTTCTTAAA AATGTTATAT AAGTATTTGG
 93051 TGCATATGAG TATCTAGGAT TCTATCTAT AATAGAAGTC ATAACATCAA
 93101 ACTACCTGGT TAGTTCTGCT AGCTTCTAGT GCGAGTGTGC TGCATTTTAC
 93151 AGGAAGGCTT TAAATGCAAT TCTATCTGTA CAGTGATTTT AATTAGCAAG
 93201 CAGCTCTTAT ACCCTCTTGA ACTAGACTAT TGGGTGGAAT ATTGAGTTGA
 93251 GTTCTGCTTA CACATCTGCT GTCACTGAG AAAATGCGAG CTCTTCAACT
 93301 CACACCCAA TAGAATGAG AAACAACACT TTTTAAACAC ATCAACAAGA
 93351 AGCAATAAAA ACATAACAC TTTCTCTCAG TAGTAAAGT ATAGAATATG
 93401 TACTTGCTTC TGAAACACAT TGGAAATAA TCCCAAGAAA TGAGATGCTG
 93451 CTTCTCTGCT TTTTCTGCTG TAACAGATCA AAGTTCTTGA TCGTTTCTTT
 93501 TATTATTTT AACTCTGCT GTTCTTAAAG TTTTAAAGT TATCTTAT
 93551 TTAATAAAG CTTCTCTGTA AGATCTGAG TTTTCTTAT CATCTGATG
 93601 CTTCTGTA TGAAGGCTG TTTCTGTA TTTTCTTAT CATCTGATG
 93651 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 93701 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 93751 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 93801 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 93851 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 93901 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 93951 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 94001 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 94051 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT
 94101 TTTATTTT TTTATTTT TTTATTTT TTTATTTT TTTATTTT

FIGURE 3, page 30 of 173

94501 TTTTTTTTAA GGCTATAATG ACAAATTACT ATTTGAGTAT CTTAAATTTT
 94551 AATTATATAT TATTAAGAAI GATTCTGATC CAATGCAAG TGAATTTTGT
 94601 AATTATTAAA CCCATTCTCC ACAAATATCA TTTCATATT TATATCAAGG
 94651 TTTCAGTTG AAAATCTAAA AACCAATATA TCAAAAGAAA GGGAGGTIAA
 94701 AATGAATGAA TTGTTTATAA CTAAATTTTA AATATCTCA AATATAGCA
 94751 CTATAAAGAT GACATTTTAC CTTAATTTTA TAAIAAATAA AGTTTATPAG
 94801 TTTCATTTTG TAAATTTCTC ATATGTAATA ATAATAGTCT CTATAAGTTT
 94851 ACATCAGTTT CATTATCAAT ATCTTAGCTG AGTTTGGAGG TAGCAAACTT
 94901 TGGTTTAAAG AAAAAAGCA TGCAGACAC TGAATGCTC CTTAAATCTT
 94951 TTTTCTTTT AAATCTAAAG ATCAAGTGG AAAAAGCAGA AAGATTTTCT
 95001 TTAAAGGAAA AAAATCTAAG ACATATAAG TTCTAGAT CTTTATCTA
 95051 ATACATCTT AGAATAAAT ATATAATATC TTCTTTTAAA CTTTCTTCT
 95101 CTTAAATTAAT TATTAAGAAA AAACAGTTCA AAAGTAGAAA GTGCTATAT
 95151 GGCATATATC TATACATAA ATATTATATA TCAATTTTGT CTTACTGAAA
 95201 AATGCTCTCT GTGCTGATA TTGATTTTTC CAAGAAAATT TATTAAAGAA
 95251 AAGGCAATAG AATCTATCT TACTATTTCT GTTITAAAGG AAATTTCTTA
 95301 TGAATTTATC TCTATATCT TTTATTTTCA AATTAAGAA AAATCTATAT
 95351 TAGAAGGCTT AACCTATATC ACTTCTTAGA TACTATATGT AATGTTCTTT
 95401 GTCATTTATC TCTCTAAAT AACGCTCTT TTAGTTTAAA AAAAAAGCTT
 95451 TGAAGTAAAG ACATTTATTT TGTCTAGCTG CTTTCTTAAA ACTAGATTA
 95501 AATGCACTAA ACAGTATAGG GTAAAGTGAG CTTTCTTAAA GTAAATGAAG
 95551 CTTAAAAAG AATTGAGATT CAATGCAAA ATGCTATCTT CAATTTGCTT
 95601 CATATTTTAT GATTCTCAAG CAGAGCTCT TGTATCTCT CTTCTGCTCT
 95651 TAATGGGCTA GAAGTCTTAC TAGTCAAGTT CACAAAAAGT CAAGGATTAA
 95701 TATAAGGATA TTCTCAATCT TCACTCTTT AATCTCTCT AGCTACAAG
 95751 CATCTTAGAG AATTTTAGCT GCTGCAATAT CAGTAGCTAG ATATGCAAAA
 95801 ACCAATGAGC ATCTCTCAA CTTCTTTTGG AAAGCTTTTG TTTACTTGTA
 95851 TGTGGGAAAC AGGCAAAAGG TTAAGTGTG TCTGAGTATC AGCAGGACTG
 95901 ACACACCAAT CTTGTTTCTG CAATGACAGG TTAGAGTTGT AATTAAAAAT
 95951 CTTGCTGGGC GGGCTGGCTG GCTCACTCT GTAAATCTAG CACTTTGGGA
 96001 GGGCGAGGCG GGGGATTAAC GAGGTCAAGA GAGCGAGACC ATCTGCGCTA
 96051 ACATGCTGAA ACCTCATCTC TAATAAAAAA TACAAAAAAT TAGCCAGGCG
 96101 TGTGCTGGG CACTTCTAGT CCGAGCTTACT CCGGAGGCTG AGGCGAGGCA
 96151 ATGGGCTGAA CCGGAGAGG GAAGCTTCCA GTAAAGGAG ATCAGGCGAC
 96201 TGCATTTAG CTTGCGGCA AGAGCGAGAG TCGTATCTAA AAAAAAATA
 96251 AAAAAAATA GTTCTGTA TTAGAATATA ACTCTATCTG TAGAACTAAA
 96301 CGGTCAGGAC ACAGCTAATG AGAATCTGCT TTTGAGAACT AGGTGGAAT
 96351 GTCAATATCT CCGTCTTAGG GAAGCTTCTT TACCTGCGGA GAATCTAAT
 96401 ACAGTGCATT TAAGGAAAAA TAACAGAAAC ATGAGGGAAG AGAAAGGCTG
 96451 TTTCTTAATC TTAAGAGCTT TTTATCGACA GCAATTAATC ATTTTGGAAG
 96501 AATTATCAAA AATTAGATTT TGTTCATAC AATAAAGATG CTATCAAGTT
 96551 CTCTTGACA ATGAGTATTT TGGGCAATTT TATATGCAAT TTAACAAGCT
 96601 GGGGCTTAT GGTCTTTTAA ATCTCTCTG ATTTGAGACA TAAGTAGTCA
 96651 GGGCATGTT GTCAGATTT CATAATCTG ACAAATGCAT ATTTTTGCA
 96701 GATTAATTA TTTCTTATC CTTATTAAT TTTCTAAT CTTCTAATAT
 96751 TTTCTTATC TAAATCTT CAGGCTATG CCAATCTT CATTATTTT
 96801 TTTCTTATC TAAATCTT TTTCTTATC CTTCTTATC TTTCTTATC
 96851 AATTAATCT AATTTATCT TTTCTTATC TTTCTTATC TTTCTTATC
 96901 ATTTTCTTAA CTTCTTATC CTTCTTATC CTTCTTATC CTTCTTATC
 96951 AATATTTTAA AATATATTA TTTCTTATC GATGATTTT TTTCTTATC
 97001 GTCAATATC TTACTCTG AGTTAAGGTT TTATGAGTAA CCAAGGAAT
 97051 GTCTTTCTAG AGTGCCATAA TTTAAATTTT AAGGACATCT TTACAATCAG
 97101 TTTCTTATC TTTCTTATC TTTCTTATC TTTCTTATC TTTCTTATC
 97151 ACTACTGAAA TTTTATCTTT TAAATATGTC CATTGATTIA CAGAGTACT
 97201 TAAATTAAT ATTTTATCTA CTTCTTATC TTAATTAAT AATATATTA
 97251 AATCTTATC TTTCTTATC CTTCTTATC ATTTTATCTA CATTCTTATC
 97301 TTTCTTATC CTTCTTATC CTTCTTATC CTTCTTATC CTTCTTATC

FIGURE 3, page 31 of 173

97651 AAGAGTAAAG GAGAGAGATG CAGATGATAG ACTTTTATAT ACAGAGGATAT
 97652 ATATCAAAATG AGAAGGAGAG GTGCGGTGGA GAGGAAATG AATGAAATAA
 97751 GAAAGCAATAG TAAATAATGA GAGAGATGCA GAAGGGAAGC CTGAGCACCA
 97801 AATATGATG AGAATTAGAG TTCTCTCTGG GTCCCATATA CCTGTGTGAG
 97851 GTTACTTAAG GCAAGGAATA ACATTCTAGT TTACCTAAAA CTTGAATATA
 97901 TTACTTCTGA AACASTCTTT ATTCTCTGT ACITTTTATC TTGATTTAAA
 97951 ACAAAAACAAA ACAAAAAAAT TCTTCCACT AACTGAATTG GAGCATGTCT
 98001 CTAATTCTTG TCAAAAAGC CTTTAACTA TGTCAAGAG AAGATATGTA
 98051 TCTTTCTTAA ACTTCAAGAG TACCATCTAT ATCATAGGGA GGTCTCTTGC
 98101 TGTCTTCTTT CTCTCTCTTT GTASTAGAAA GTTAATACTG TAATGCAGAG
 98151 TGAAATCTTA AGGCTTAAAT GTAAAAATAT CTGTACTGT TTAACATATC
 98201 AATTAATTAAG ATCTCAGATA ATCTCTTAA CATTATTATG TTTCTCTGA
 98251 ATAAATATTT TTAATACTT TASTCTTAA GAGAAAAAG AAAATATAAA
 98301 GCATTCAATT TTTAATTAAG AATGAAATAT AAAAATGTA ATGTGCAAAA
 98351 ACATAGATAT CAGAAATGAT TAAATATGCT AATATATTT ATATCAACAG
 98401 TGAATTAAG TGAACATTTA ACTTCTAATA ATAAAGAAAA GTATTTTATT
 98451 TTATAGCCAA TGAAGAAAGA AAAGAAAAA TTAAGAAAG AATGAGAGG
 98501 AAGCCCATTT TAAAGCAGT CCATTAAGAA ATATAAAATC AAAGAGAAAA
 98551 AAATAAATTA AAAGATAAAT TAAAGCAACT CTCTCTGTCA TTCTTATGAC
 98601 AGCCATIGCT CTAGATGATG TCAAGTTAAT ATGATCTTTA ATATCATA
 98651 CCACTCTTAC TTCTGCGTTA TTCTCTCTCT TAAAGCTGTG TTTCTGTAG
 98701 AATCAACAAAG GCAATATCTT AGAGATGTTG TTTCTAGTTG CAGAACTTTT
 98751 GAGTCTTAA TTCTCTCTTA AAATATCTG CTCTCTCTTA AGAATTTGT
 98801 TATTCTCTAT GCAAGCTTTG GAGCATGAT TATCTCTCAT CAGGTGATAA
 98851 AATAAATATA TTTTCAAAAG AAAGTATGAA GAAATCCAGC CATTCTATGC
 98901 ATCTATAAAT CTATTCTAG GAAATATGAG TCTTTTAAAG AAAATAAAT
 98951 ATATTAAGCT CAGGAAAGAG AGACATTTTA AATTTTAAAA AGTTTCTGTA
 99001 TCTTATGTAT ATCTCAGATT GCTTCTAATA AATGACTGTA TATTTTGTAA
 99051 AGGTTCTTAA TGATCTAGAG AATGCTCTG AGAATATAG TGTTTTATAA
 99101 AACTCTACAT AAACATATAA TACCATATG TTTATTTTTT GAACTGCTAG
 99151 TTATTCTATAT TTTTAAAAAG GGAATATTA AACATTATAA AAGCTGACAT
 99201 GTTCTACTCT GAGATGTAGA ACTGCAATG AACTACAGG CTCTTCTACTA
 99251 AAATGGAAAT ACAAAATTTT ATCAGCATGC TGTAAAAACA GTTGTGATAG
 99301 ATGGATAAAA TATTTAATAT GTAGCACATA GATGTAAACA TCAATCTATA
 99351 TATAATACAA TGGTATATAA CATTGTATAG TATAAATATG TAAATATATC
 99401 ATGACAACCT TATTACAAAA TGCTTTTGT CTATTTTTTT GCTTTGCTTT
 99451 TTAATTAAAC ATGAAATAG CATGTTATTA ATATGTATAA TTAATAACAT
 99501 ATGTTATTTA TATGTGTAAT TAATAACATA TGTATTAAAT ATGTATAACT
 99551 AATAACATAT GTTATTATAA TGTATAACTA ATACATATG TTATTAAATAT
 99601 GTATAACTAA TAACATGTTA TTAATATGTA TAATTAAATA CATATGTTAT
 99651 TAATATGTAT AATGCTAGCA TATCACTATG CATGACATG AAAGTAAATA
 99701 CCGCTCTCCA AAGCATGGCT TTAATTTTAT ACTTAGAAGA CTAGGTTAAG
 99751 TTGTATCTGG ATCTGCATAA CAGTTAGTCA ATTATCATGT ATTTCTGAAG
 99801 CTTATATATAT AGCAAGTTT TCGAATGAAG ATTATAGAG AACTCTTAAT
 99851 AAATACTAGG AAATATGAA GTCTTTGAGA TGTAAAGAA CCAACATATA
 99901 AAATATATG AAATATGAA ACTTAAAG AAATATTA AATATATAA
 99951 TAATATATAA AATATGAA ATTATATTA AATATATAA AATATATAA
 100001 TAATATATAA AATATGAA ATTATATTA AATATATAA AATATATAA
 100051 AATATATAA AATATGAA ATTATATTA AATATATAA AATATATAA
 100101 TAATATATAA AATATGAA ATTATATTA AATATATAA AATATATAA
 100151 ACTTGGAGCT GCTGTAAGAT TGACAGGCTG AGTACACAG TCTCAGGATT
 100201 CAATTTGAT TTCTATTGAA ACATCATTAC CGTTGTTGAG CACGGTATGA
 100251 CTCTAATAAA GTTTTCTGTA TTCTGTGCT TTCTCTTAA TTGATGTAG
 100301 TCTGAAAT TCTGCAAA CACAAAGTCA GTTCTCTCA GTTTTGAAG
 100351 CAGGTAAGCT TATGACCA AATCATCTG GTGCTATTG GAAGCAAGCT
 100401 GATTAATAA AATTTGAGT GCTTCTCTG CTGGAAGAA GCTGCTGCT

FIGURE 3, page 32 of 173

100851 ATTCTCAAT AGTGGGCTAT TGGGAAATG GTCTGTGAAG TAATTGCTC
100852 GTCTTATTT GATTAGTTT TSCAATGAA TTAATTCTCC CCATTACAG
100853 TGCTTTAATG AGTAATAACT TGGATTGAAT CAATACCCAG CCCTGCTCAT
100854 TCATGTACTG CCACTCTAAT ATCCATATCT CATTGATCTG TCTTTTCTTA
100855 CTAGGTCTGA ATGATATAT CTTTCAATCT GGCATTTAC CTTGATTTG
100856 TCATAGTAGA ATCAGATAGG AGGAATATTA TGGGGGCTGG GATTTTAAGC
100857 ACCCTATGG TCAGACCAAG CTACATGAA ATATTTTGA GAGATCTGC
100858 CAATGATCAG GCTTACCTCA GGAATATGCC TGGCTGGGA TGGCTCACTG
100859 CAGGTCCTAG CTTCTAAGGG ACACAGAAAA ATCTGGGGGA GGTTCACCTG
100860 ATGACGGGCG CCACTGAGGG ACCTGGAGCA ATGATTTCCA GAGGCCAGCA
100861 ACAGCTCAGC ATGCTTCTGA CTGCTTCTGA TATGGAAGCA GTTAGTAGAG
100862 GTGCAAAACG AGCAGGTAGA AAGAGATCTG TGGCTTATG ATAAAGCAAA
100863 AACAAAGAAG ATTCAGGGGG GGTGGCTGGC AATGTTCTAG ATGAGGATC
100864 TAAAGATCCA TGGGCAAAAC AATCAGAAAT GAGATAGAG AGTTGACATT
100865 AGGAATAACA TCAGCTGGGA GGTAGTCTCT GGCATTTAG CAGGAATTTG
100866 AAGCATGGTG TTTCTAGGCG TCAAGATAG GGTGAATATA CTGAGAAGSA
100867 AAGTTAGAGT AAGAGTAAAG CAGGATATA AGGAGATTT TGAAGAACT
100868 AATTTGAAAAAT GGTACCAAG GCAAGAGCTC ATTTATAAGA TATGGGCAC
100869 ACAAGGGGCA TTTGAGGCTC CCAAGAGAGA TGGGATACAG TATTTAGAA
100870 GGGCTTGAAT GACCTAGAGC ANDGGGAGT CAGGAGAAAT TGAAGTCTG
100871 CAGAGCTTGT GATTAGCACA CTGAGAGAGA AGCAGAGCAG GTGCTCAGA
100872 GGGGGATCC AGTGGGGAAG GATCATGAAG TAGAATTTAG GCTGAGTCTG
100873 ACTTAGAGCT CATGAAATG ATGCTCTGCT TATAAAAAAT ATAACTGCA
100874 ATAGATTTTA GATGGATAT GGTGGGAGC ATATAGGCA CTTTATTTGTC
100875 GAGCTCTCAA GAGAGAGATT CCAATTAGAA TGTATTTAAAT GCTGTTTTAT
100876 ATTTATTTCT TTTAGTTATC CTGCAAGGAG CCAAGATGAA GTAGGTGTTA
100877 GCAATTTTFA TGGATTAATC TCACTAAGCA TAAGAAATTC CTTAACAGGC
100878 AGACAGATAA CAGATATAAG GACAAACACA CTGATTTTCT TTTTTCAGC
100879 TTTTGTCCAA TGTCTCTAT CAGGATCAAG TCAGTTCAG TGTTCCTGT
100880 GGGCTCTCTG TTTTCTGGGA AGAAGTAGCT CAGATTAGGC AACATTCAT
100881 ATGAGGCTGT ACCCTCTGAC TGAGTCTGAA AGCCTCTGTC AGCAAGTCTC
100882 GGAGAACCTT GATTAATGTA AACCAACAG GTGAATTCG TTTTGAAGAA
100883 ATGTCAAAAT AGGGCAGTGA CGATCTTAAT GTATAAGGCG TATGCTCTC
100884 TGTGCTGAAG AACTCTGGCA GAGACTCTCT GGTAGTCAAG AAGGCTAGGT
100885 GGTGATGAGC TTAATCAATG GCAGTTATAG ACAGAGGGAG TAGGGTCTTT
100886 GCATGCCAAG GATAACAGCA CATTGATCTG TATATAGATA CACACATATA
100887 TATATGCACA CACACATATC ATCAGAACAT GACCAATGAG TTAGCTATTA
100888 TCTTTTAAGA TTAGAATTTT TAAAGAGAAC TTACACAGAA AGATTCTATC
100889 TGTGCTAGC AAAAGTAGA GGTGCTCTTT TTTGAGAACT TTTTTHTTT
100890 TTTTTHTTT TTTGATATGA AGGCTCTCTC TCTCTGGCGC CCAAGGCTGGA
100891 GTGCACTGCT GTGATCTCAG CTCACCTGAA CTTCTGCTCTC CGTCTTCAAG
100892 TGATTCTCTT GCTCAGCTT CCAAGTACG TGGGATTATA GGCATGCGCC
100893 ACCATACGCG GCTAATTTT GTATTTTCTAG TAGAGATGGG ATTTCACTAT
100894 GTTACGCAAG TGTCTCTCT ACTCTCTCT TCTCTCTCTC CAGTCTCTC
100895 TATCTCTCTA ATCTCTCTA TTATCTCTT GAGCTCTCTC CAGTCTCTC
100896 TATCTCTCTA TCTCTCTCT CAGCTCTCTA CAGCTCTCTC TCTCTCTCTC
100897 TATCTCTCTA TCTCTCTCT TATCTCTCTA TCTCTCTCTA TCTCTCTCTA
100898 TATCTCTCTA TCTCTCTCT TATCTCTCTA TATCTCTCTA TATCTCTCTA
100899 GCTTATTTT AGTCTCTCTC CATATATAT CCTTAAGAG GCTTATTTT
100900 ATTTCAATAT ATATAGTAA AGTTCTATAT TTTATCTTGC ACCCAATGA
100901 TAGCAGAAAC TTGACTCTTT CCTCAATAT TTCTGAGAAT GCTTGGGAATA
100902 CTGGAATACT CTCACCTGCA CTCTGCTTGT GTCTCCATGT CTCTGCTCT
100903 GTTCTCTAAA ACACAGGCTT CTTCTCTGCT TTGCTTTTCT CAACTCTCT
100904 TATCTCTCTA TATCTCTCT TATCTCTCTA TATCTCTCTA TATCTCTCTA
100905 CAGCTCTCTA TCTCTCTCT TATCTCTCTA TATCTCTCTA TATCTCTCTA

100906 TATCTCTCTA TATCTCTCT TATCTCTCTA TATCTCTCTA TATCTCTCTA
100907 TATCTCTCTA TATCTCTCT TATCTCTCTA TATCTCTCTA TATCTCTCTA

FIGURE 3, page 33 of 173

104394 TATTTTCTAA GGGTTTAAAT TTACTTAAAT TTSCAGAAC ATAGTAAAG
104401 TAACTACATA ATCTTACAGA AGTGGCTTCA CATGGGCTTC ATTTTCTTTA
1044051 GAAAGTCCCA TTGGCTCTTT TTGTAAATCT TCAATTCCTC AGGGTATTTG
1044101 TTGATGCTCT CTATCTCTCT TTGATTAAGT ATTAAACAG TTTAAATAT
1044151 ATTTGCTCTT TTGTGACTTT AGTAACTTCA TAAATTCAG CAATGCTCT
1044201 TATTAGAAGG CATCACATCA CTATAATAG GTGAGCTCTA TGAATGCTCC
1044251 TTATGACAAA TGAATTCATT ACCTTTGGG TAAATTTCAA TCAGCAACAT
1044301 CATCTTCAAT CTATAATCT TCACTTTTGC TTTATAAAA CAAATCAGCT
1044351 TCATTCATTT CTATACAAA ACACTCTCT TTAAAGGTA CTATTTTGAT
1044401 GTAAATCATA TCTGATGGGA ATCAGAAAAG CACCAACATC CACAGGTTTC
1044451 CAGATTTTTC AAGCTCTTTT GAAATGAGTG AAAAATTTAG AGTCTTAAA
1044501 ATAAATACATG CAAAAACATA ACTTTAATTT CAGTTATTTT TCTAATATCA
1044551 CATTTAATTT TGCTTATGAG ATTCAATTTT ATCAAAAAA CAACTCATTC
1044601 CATGAGAAGT TTCTTATGTC CAAACAATAT TTTTATGTC TGTGCAATC
1044651 CTCTCTCTCT CTCTGAGGTT TTGCACTGAG ACTTACGAG AAAAGACTAG
1044701 TCTTGAATCT TCACCACTCT GCGAGGTTTG CATTAATTA CAGGAAAAGC
1044751 ATTACTTAT TTTTATTTAT ATGATTTAT ATTATCATC AAGATCAGTT
1044801 CCACTCAGATA TTACCTAAAG TGTCTATTC ATTCATGCTC AAGTCAATTC
1044851 CCACTCAGAA TACTTCAACA TTCAATTTAT TTGCAATGTA GGTCTGCTCT
1044901 CCACTCTCTC AGTTAAATTT AAGTCTCTCT CAGGAGGAT ATTATGCTCT
1044951 TAAATTTCTC AAGCTCTCTC GCGCTCTCT TGTCTATTC TCAAGAAAAGC
105001 CAATGCACTC AGAACTCAGT GATTTGTAAT AAAGAAAAG TTTAATTAATC
1050051 CCACTGCTCT CCACTCTCTC CAAAGAACTT ATTTCTCAAA TCTGCTCTCT
1050101 TAAGAAATTC CAGATTTAGT TTTTAAAGG TAAATTTCTG AGCAGAAAGC
1050151 TGAGGAACTC GCGAACTCAA ATATTTGCTT GCGGATGAAA TCAAGAAAT
1050201 GTCTAAACTC TCTTAGGACA GTTTGAGGCA CTCTGAGGA GGAATTTTCA
1050251 GGAAGAGGTA GAGGTTTAT CAAATACTA AATCTCAGAA ATACCTCAAG
1050301 GCGCAATCTT TTAAGTTTCT CAATAGTGA ATTAATTAAG GGAATGCTCT
1050351 GCGAAGTTAT AAATTTCTCT ACTTCTGCTT ATCTACTCTT GGTGCTATAA
1050401 GCAAGTTATA GGAAGGTAAG CAAAGCAATG GCAAGTTAT TTTTAACTAT
1050451 GCTTATTTCT TAGCAGGACT CAAGCTCTTA TTATAATTTT AAGCTTCTCA
1050501 TGTCAATGTC GTTTCTCTCT CCAAGCAAGG AGAGGCTTCA ATTTCTCTCT
1050551 CCAAGAGTTC TATGAACTGA ATCTCTCTCA TAGCTTTCTT GCGCTTCTCA
1050601 CTAGAGTAACT CAAAACTAA TTCACTCTCT GAGATTAAG GCAAGATGGA
1050651 GTCATCTATA TTAGATTTCT CTCATTACTT ATAAATCTCT AAAGGAGTT
1050701 TCAAGCTGAT TGTGAGGAG TGTCTCTTGC ATGTTAGAG AGATCATAGC
1050751 CATCTCTTAC TTTTCTCAT CTCTGCAAG CTCTGTAAG CTTGCTCTCT
1050801 TCCAGGAGAG GAGAGAGAG GTTCTGCTCT CTCTTAGATG ACCAGATTA
1050851 TAGGCTTCTG TCAAGGAGAG AATAAGAAAC AGGATTCAG ATTTCTTTCT
1050901 AAAGACTCTC ATCAACATCT AAGTTCTCT CTCTCATTTG TGATTCCTTT
1050951 CTTTAAACAC CACTCTCTCT AGTCTCTATT TTCAATGTTT AAAGGATTT
106001 GCAAGAAAAA TCACTGTCAG GTAATCAGAT GTTTTCTAT GACTATGCTT
1060051 TATGCTATAA ACTTCTATGA TTGAGTCTCA CTGAGCTCTG CTTTTTAATA
1060101 TTTAAAGCCA TGGTTTCTGA ATTAAATATA AAATCTCTT CCAATCTTT
1060151 ATCTATGA TTTAAATATA TTTTCTGA AAGAAAAA CTCAATCTTT
1060201 GTTTAAAAAT CTCTACTTAA GCAAGCAGT GCAAGACTAT CTTTCTCTGA
1060251 TAAATCTTT TTTTCTTA TAAATCTTT CTCTAAAT AAGTCTTT
1060301 TTTTAAAT ATCTATGA TTTTCTTA AAGAAAAA TTTTCTTT
1060351 AAAATCTGAG ACTTAAAT ATCTCTTT AGTCTCTTT CATGAAATA
1060401 TTTTAAAAA TTAATCTTA TTTTCTTT AATTCTCTT TAAAAATCT
1060451 TAAAAAGCA TAAAAAGCT ATAACTAAA AAGAAAGCAT AGTTCTTAA
1060501 ATTGTTAAT CTTTTACAGA TAATATGAG CATTATAAAA AAAGACAGAG
1060551 CCACTATATT TTCTATAGA TAGTATTTAT CTCTGTTCCA GAGGCAAAA
1060601 AATTAATTT TATCTAGAT TATCTAGAT TATCTAGAT ATTACTTTT
1060651 CTCTAAAAA ATCTATCA ATTTATTT AGAGCTTTT CAATAAGAT
1060701 TATTAAATC CCAATTTAA TAAATGAAAT AGTTTAAAG AAAAAAAT

FIGURE 3, page 34 of 173

107101 AGATTGCTGCG TGATGGTGA CAAAATAAAA TGCCAAAGGA GGTGAAAAGA
107151 TGCATGSSST AGCTTAGGCT AAGTTCTGCT GTGATGAAA ATGATAAATA
107201 AGTCTCAGAG GCTTAATAA ACAATCAATT TTGGCTATG CTACATGAG
107251 GTCATGAGTC TGTTCACA CA CTGCTTTGTA TTATCTTGT TCTGAGAATA
107301 GATTAGAAJA TCAATGCTA TTTGGGAAA TGTGATGCT TTGCTTGAGG
107351 GAAAAATAJA GAAGGCAAT ITACATGATG GCTCTTACAG CTTCTGTTA
107401 GATGTGTAT ATTTCCCACT TCAITAGCCA AAGCAAGTTA TGTGCGCAAG
107451 CTGTATGTA ATGAGTTGAG CAGAAACAAT CTTGCAATA GAGAGGTTT
107501 AACAAATATT TTGAACAATA ATGTAATGTA TATGGGCAA AGTAATACGT
107551 TTAAGAGAAJA CAAATATAG ACAATAGAJA ATCTGGGAA GATCTATGCT
107601 AACTAGTCAG CTTAGTCTA TTTCTTTCA CACAATATG CCAACCTAGT
107651 GACCAAACTT TTTTCTTAA AGAAGCTGAG AGCTGATGAT TGTCTATTCA
107701 TACTCTGAG AGCCAAAGGCT ACTTCTGGA AAGCTGTGCT CCCAGAGCTC
107751 TAAATGATG TTAGTATATA GAATTTATAT CAGATCTGAA AGCAATGAGC
107801 TGGCACTGTT GTTAAATATG CCAAAATTTG CAGAGCAAGCT CTGAATCTGG
107851 AATTTTATAT AAAATCTTTG TATTTCAAA GTTATCAAGG AATTTAAGTA
107901 TTTTAAAAJA AASTGCGAGA TTAACAAAAC ATTGTTTCA GCAAAATCTG
107951 GCTCACTGAG CACAGTTCT GAATTAATGAT GCACTGTGAG AAAAGATATC
108001 CACACTTTTC TGAATGAGC AGCTTACAA GGGAGAAAT TTCTATTTCT
108051 AACAGGCAATA AAAAAATAT CCAAAAGTGG TAAAGAGCTA CTCTCTATNT
108101 CTGATCATGC TATTCAAAAC TCACAGTAAT CTTTGAAGA AGATATTAAAC
108151 AATTTATAAT TTACTATTAC AAATGAGGAT ATTGAGTTT AAAAGAGCAG
108201 TGACTTGCTG ATGTGAGTGC ACGTTATAAT TGAATAATG GACCAAGGGA
108251 TTTTCAATTC TTTCTTCTTT CATTCTAGG TTGTAATGAG TTTAGTTCTA
108301 CTTACCAAAAT CTTTAAAGG TGAATTTTAA AGCACTCTAT CTTTAAATGAG
108351 TAACTGGAATA AATGTGAAAC GCTCTTATC CATATGAATA TACTAATCTT
108401 AAGGTATGAT ACTTTTGAAG GAAAGAGATC AAAAATAAG ATATCTATAT
108451 ACTGGGTAAC TCTTAACTT ACTTTCAAT TCTCTTTTCA TATAAAAGCT
108501 TTTGGTTTGA CAGGTCCTTG ATCATTGCTG GCATTCTCAT TCACAGTCTG
108551 TATCAGAGGCT TTTCAAGTGA TGAGTGAAT CTCCTTTAA CTCTAATAT
108601 CAGCTCAGGA GATACTTTGC TACAGAAAG GAGAGAGAGT ATTGCAATCT
108651 TCTTACAGG TACTCTCTT AATGCTTCT AGAATTTGCT CACTGCAAGT
108701 GCATCTTCTT CTTTACAGCA CTCTGAGAG TGATATCTCT ATGGCCACAG
108751 AGGAGAGCAA GGTATCTCTA GACAGGCTCT TCAAGATCTG CTTAGTCTCT
108801 GTAGTTGCTT ACTGTTAACT TACTTTGCTA TTTAGCTGAA AACTCAAGTG
108851 CTTTAATTTT GCAACTTTA TTTGCAAGCA GTTAACAGTT CAAGTTTCTA
108901 AGGCAATCTT CTTCTCTTTA TATTTATATT TTTGTAATTA GTAAATATTT
108951 CAAACACAGA AAGTAATATA ATTGATATCT CTATAGCTAC CATCCAGCTT
109001 TACTAAATTT AACTTTTCTT GCAATTAATT CAGTTTTTAA ATATACTGCT
109051 TCTAATTGTA TTTCTCTGCT CTCTATAAAG TTATAACCTT TTCAGAGCTA
109101 TCTGAAAGCT TAAATTTAGT ATAGATCAAT TTTATAAATA TTTATGTTCT
109151 TTTATAAATA TTTTATATTT TATAAATAT TTTATGGAT ATTTCAATAGC
109201 AAATATCTAT AAAAAAAGG TATCATATTG CTTGTTTTAT AAAATATTAT
109251 AAATAAGTCT TATTTCTCTT AATTTGAACT TTTGATAT TATTCTTTA
109301 TTTAAGCTTA ATTAAATCT TTTGCAAGG TTTTATAT TTAATTTCTG
109351 TATAAGAGCT AATAAAGCA ATATAAGAG ATTCTTAT TAAATATCTG
109401 TTTAAGGATA TTTAATTTT TTTTCTA TTTTATTTT TTTTATTTA
109451 ATATTGATA CAAATTTATA TTTGATTTT CTATGATA TTTGATTTA
109501 TTTTCTGCT TATATTAAT TTAATTTA TTTCTTTT TTAATTTA
109551 TTAATATTAT ATATTATTAT ATATAATATT ATACACAGC ACACACAGC
109601 ATATATATAT ATGTATGAT GCAGGACATG AATCTTTTAA GAGTCAAAAT
109651 GCATTGCAAG AGGTCTCTCT AAGTCTCTAC TTTATTTTTT CCAATGTTACT
109701 TATGATTTTG TTTCTTTTT CTGATAGAGA TGTCTCTACT GTTGTCTAGT
109751 TTTCTCAAT GTTTCTCTTA CATTCTGAT CTTATTTAAH AAATCTTTT
109801 TTTTCAATA AATAAATTT TTTCTTTA TATTTCTTA TATATTTTAA
109851 TTTTATATT AGTTCAATAA TTTACTGCAA TTAAGTTTGG TTTATATTAT

FIGURE 3. page 35 of 173

110251	TGTTACTTCG	ATTGTCCTTA	TTTTCATTTG	TTATTAGAT	TTGTAATTA
110301	TTTTTTGGT	AGTAATATTA	AAATGTCAAT	ATAGAAATTT	ATAATAGTAT
110351	TCTTAAATGA	TTTATTAAT	TGCTTGTCTT	TASITTTGAG	TCTTTTCACTT
110401	CTAAATCTAT	TTGTGCATTT	CTTAGTTTTG	TTGATTTCCC	ATTIAGAAAA
110451	TGATTTTCA	TAACAAAGTA	TCTAGTATCT	AATTTTAAAT	TAATTTTCTT
110501	TGAAATTTCT	TTTACTTATA	AACTTCAGAA	TTGATTTTCT	ACAAGAAATTC
110551	TGAGAAACCC	TCAATCATAA	GCATTTTCAA	TATTCAGTCT	TTTCUATTCCT
110601	ATTAATTTCT	TCTAGTATTC	TTATAGATA	TATTTTGGAT	CCATGGTCTCT
110651	TAATTTCTCT	TTCATATTTT	TGATTTTCTT	TATTTGAGA	TCTTTTAGCTT
110701	TTCTAATTTT	GGCATGTCTA	ATATAATGTT	TAAAGCATTC	TTTTTTTCTT
110751	ACTTTTATTA	CTGTAAATATA	ATTTTTCACAC	TTTGTATTTA	CATATTTTT
110801	AAGATTAACG	CTTTTCAAT	TAACTTCTCT	TTTATTTCTT	TCAATTTCTT
110851	ATTCTATATG	TGATATAAT	AAAGCTATCT	ATTTTATAGA	CTTGTATTTA
110901	TGCTTAAATA	GGAAAAATAT	ATGATCATCT	CAGGATATTA	AGAAAAAAA
110951	TTTTTAATAA	ATAATTTAAG	AACCACTTCA	CATTAATACT	AACTCAATGA
111001	ACAGTAACCA	TATTTTATGA	AAAGGCTCAA	TAAACATATA	TTTTTTTAAA
111051	CTTTAGTACA	CTTAAAAATA	CAGCTTATTA	ATAACATCAC	ATCTCATGAG
111101	GAAGAACTGA	ATCATTTCTG	CAAAAAATGAA	AATAAAGCAA	GAATCTTCA
111151	TCTTATTACT	TATAGTCAAG	ATTTTATTTGA	AGGCACTATA	CTATTTTCAA
111201	AAGCATGCAA	AAAATAATTA	AAAGTATTTCA	CTTTGTAAGG	TAAAGATTA
111251	GATTTCTCTT	ATACATAAAT	GATTAATAAG	TTACTAGAAC	TAATTAATTA
111301	CTTTACATAA	TCTTTTGAAG	CAAGATCAAT	TTTCAATAT	CAATTTGACA
111351	CTGATTTCTA	AGATCTATAT	GGGAATAGAA	AGGATTTAGG	TTAACTAAAA
111401	CAACTATGGA	AAAGAAATAA	AAAGAAATACA	AAATTTGGGG	ACATATATTA
111451	CTTGATTTCA	AATTTGACTA	AAAAATTAAG	ATAGGCTATA	TTTCAAGAAA
111501	ATTAGGCTGG	GGTGGTCTCG	GGGGCTTCTA	CTGGGCTCTC	TCAGGGGAGG
111551	CTGAGGCTGG	AGAATGGGGG	GAAGCTGGGA	GGTGGGCTTT	GGAGTGGGCT
111601	GAGATGGGCT	CACTGGCTCT	CAGCTGGGGC	CAGAGAGGGA	GATTTCTCTCT
111651	CAAAAAATAA	AAAAAAATAA	AATTTGGCTA	TATTTGACAA	ATGACAATCA
111701	TATAGATGGA	TGAAGCACTA	TAGAGTGGAG	AACAGATGCT	ACATATATTA
111751	GGGCTAAGGT	AATGTAAATG	GGGAAGGGCA	CTTTTTTAAA	CAAAATGGGG
111801	TGTAACAGTT	ACATATCTTT	CTTTAAAAAA	ATAAAAATAA	AACTTTGAGG
111851	CTTACTCTCA	ATCATGTAGA	CTAACTTAAA	ATAGATCATT	GATCTAAGTA
111901	TGACAGGTAA	AACATATAAT	TTTACATGAA	ATCTTGGAGA	AATTTTCTATA
111951	CTTTTGGCTT	AAGCAAGAT	CTTTAAAAATA	AACCAAAAT	TACCATGAAT
112001	TTTTAAATAA	TATTTGATTA	CTTGGCTTCA	TAAAGCTTTT	TTGTTTTGCTT
112051	TTGTTTTGAG	ATGGAGTTTC	ACTCTTCTTG	CTCAGGCTGG	AGTACAATGG
112101	GGCAATTTTG	GCTCAGGACA	ACTCTTGGCT	CTGGGCTTCA	AGCTATTTCT
112151	CTGGCTCAGG	CTTGGCAAGTA	GCTAGGATTA	CAGGCTTGCA	CTTCCAAGGC
112201	GGCTAATTTT	TGTACTTTTA	GTAGAGACAG	GGTTTCTCTG	TGTTGGTGGCA
112251	GGCTGGCTCT	GAACTCTCTG	CTTCAAGTGA	CTGGCTTCTG	TTGGCTCTCT
112301	AAAGTGGCTGG	GATTACAGGT	ATGAGCTACC	GCTGGCTGGG	TCATCAAGCT
112351	TTTAAACTTC	TGCTCTTCTG	AAAGACACTA	TAAAGAAAT	AAAAAGACAA
112401	GACAGCTACT	GGGAAAAATA	TTTGGAAAGG	ATATTTTATA	TAAAGCTTGA
112451	ACTTAATATA	TATTAAGAA	ATTAAGAAA	TAATAATTA	AAATTTCTAT
112501	TTTAAGGGA	AAATTTTCTT	ATTAATATTT	CAGGAGAGAA	GAATTAATAT
112551	CTTAATAGAG	CAATATAAAT	ATTATATCAAG	ATCATTAGCT	ATTAGATAAA
112601	TTTAATTTTA	AATTAATTTT	ATTAATTTT	ATTAATTTT	TAATTTCTCT
112651	AAATTAATAA	AAAAATTA	TTTATTTTAA	ATTTTATAA	CTATTTCTAT
112701	CAACTAGAGG	TGTATATATC	TGCTGATGAA	AATGGAAAAA	AAAGGAGTTT
112751	TTAAATATAA	ATTAATTTAT	CACATATCAT	ATGACACAGA	AATTCCTCTC
112801	CTGGCTATTC	TCCAAAGAGA	AATGAAAAACA	TATGTACTCA	TGAACATATA
112851	TATATGCACA	TTCAATATAT	GTAGTTTGT	TACAGTGAGT	AGCTTTTGGCA
112901	TATATTTTGG	TAAACTTATC	CTTAAAAAAT	CTTTTATATC	ATTGGTGCTA
112951	AAATTTTAAAT	TTTTTTTAT	TCTTGTATTT	AAATAATTA	ATGATATTT
113001	GGAAATAGAT	TTTGTTTTAA	ATATATAGCT	ACATTTATA	ATATATTAAT

FIGURE 3. page 36 of 173

113401 TATATTACTT ATCTAGAGTT TAAAGCTATG TAAAACTTTT AATAAATAGG
113451 TCAATATTAT TCCATGTTAA TTATATTFTA TTACATGAA TTAAAAACA
113501 CAAATAATTT TCTTATATAT CTCTATTATG TTCTGCTTG AGAAAAA
113551 ATTTTAATAA AAAATTTTAA ACTGTTTTAT ATTAGCATAT TTTATCAGTA
113601 AACATCACTT TGTATTCTTA AGAATTTTGT ATCTATACAT AGTAGAGAGT
113651 ATAAAACTTA TTAAGCTCTC TTGGGAAACC AGGACTTTTG GAGTAGATTA
113701 TGCGAAGAAAG AGACATAGAT AGGTATGTTT AATAAAAAC TCTGTAGTCT
113751 TAAATTTTGA TAAAAAGTAT CTGTATGAAT GCATATATTT TTGATCTTTA
113801 AAJAAAAACA ACCCTATCTA CTJAAAAACA AGTCTAAAA STAAAAACTG
113851 ATTCAGCTGC AGCTATAAGC TCCCTCTTCA ATAAATTAAT TGTAATTCTT
113901 ATCTAGCACT TCCCATTAGA ATTAATCAAT CTCTCTTTAG AAAATAGCTG
113951 ACCACTCAGG TCTAGGCTGG CAAATGAAAC TAAAGCTTAG AATGCTCTAT
114001 CAGAAAGCTAA CAAACTATT AAAGCTATTA AAGATATCT AAAAATAGCT
114051 GAGGCAATTT GAAAAAGCTT CACACAGCTA AAAATGCTCT AATTCTAGCA
114101 TTAATAAAGA ATAAATAGCT GGGTGGTATG TCTAGCTCTT GTTATCTCTG
114151 CACTTGACAA GGGTGAAGTG GGGTGAATAG TGAAGCTTAG GAGTTCAAGA
114201 CCAGACTGCG CAAAGAGTGG AAACTCTGCT TTCACTAAAA ATACAAAAAT
114251 TAGCTGCTGG TGGTGGCTAG CACTCTGAAT CAGAGCTTTT CAGCAAGCTG
114301 AGGAGGAGA ATCACTTAA TCTGGTGGG GGGTGAATTA CTAGCTGGAG
114351 ATGGGCTGAG TGGCTTCTAG TCTGGGAGAG AGGCTAAAGC TCTAGCTGAA
114401 AAATAATPAAT AGCTATAATA ATAACTCTCA AGCTAAAACT CTTTGAATAA
114451 TGATATGAG TTTATAATAA TATTCTTAAA AATTCTATT TACTCTTCAA
114501 GGAAGCAAG TCACTCTTTT TAAATTTGG AGCTAAAAG AATAAAGCA
114551 TTACTCTTAT TGGTATCTGA GGATTAAT CAGTAAAACT TACACTCTAG
114601 AAAAGCTTAC AGAACAATG ACTCACTTTA AATACTCTT TAAATATAT
114651 AAAAAGAAAG AAAATAGAG CTAGCTTTAG TCTATAGATC AAAATATAG
114701 ATGAAAACTT ATAGCTAAAA ATCTATAGAT CAAAAAGAT AAGGTATGTT
114751 TCTACTAAAT GCAATGAGTG GATTAAGTCT CCAATTTAAA CAATTTTTTA
114801 AAAATCAGAG AAATTTTGT ATTGATTGCT TATATTTTAA AAGCATGATA
114851 ATAAATCTGT GACTCTGAT TTTCTTTTGA AGAAATATCT CTTTTAGAAA
114901 TACTATGCTGA AATATGCTGA CATCAATGA TACCTATCTT GGAATTTGCT
114951 ATGAAAAATC TGAAGCATGG GGGATCTAGC TAAAGCTTAA AATGAAAGTT
115001 ACCCTCAGAT TGATAATPAT GTAGCTGAG TGGTTCTCTC ATGGGGTGT
115051 TTTACTCTAT TTTCTCTTAT TGTCAATAGA TCCAAATTTT TCCACACAA
115101 AAAAGTTTCA TAATGCTGCT CTGGGCAAAA TCACTTGTGG AAGAAACAG
115151 AGAAGACTTA TCAAGGAGTG ATTAAGGAAA CAAACAAAAA TAAAAACAAA
115201 GGTCTGCTTT TCCCTTTTGA TGGTCTGTT CATGAATAG TCCCAAGTGC
115251 TCTATTATT CTAGTATAGT GAGAAAGAT TCAATTAAGC AAGATAATTA
115301 AACTTCAGAT AATATAGAGT AACTTTGCTA AAAAGACTTC ATGAAAGTTG
115351 TATGAACATA TTCTGAATGT ATCTCTAGA ATGCTTGGAG TTAGCTATC
115401 ATTAAGATTT TTTCTTATA ATTAAGTATT TAAAAAGAAA AATTCTGCCC
115451 TAAAGAACAT TCACTATAAA ATCTAAGGAG AATGCTGAT AAATGTTTCT
115501 TTTTACAATT TAAACATAAT TTGCAAAAAA AATTAAGGA AGACTTTTTT
115551 ATCAATGTC TACTATTAT ACTCTTATT AAACAGTTTG AATAGGAATA
115601 TCACTAATTT CATAAATTA AATCTATAT AAATATAGG AATAGTATT
115651 AATTAATTA AATCTCTTT TCAATTTCT AATTTAGG TTTAATTA
115701 AATTAATTA AATCTCTTT AATCTCTTT TTTAATTA AATTTAAT
115751 AATTAATTA AATCTCTTT TCAATTTCT AATTTAGG AATTTAAT
115801 TTTAATTA AATCTCTTT TCAATTTCT AATTTAGG AATTTAAT
115851 TAGCTTTCTA GAAAGATTC CAAAAATAAA AATCACTTCA GTGAGTCTC
115901 AGAAAAAGTA TTTTCTGGGG ATACTGCATA GATTTAAGG AAGTAACCTT
115951 TTTCTTTGAT GCACTAAGTT GCTATAATAT CTATTGAGT ATACAGTAGT
116001 CTTTCTTAG CCACTGTTTT CTCTCTCTC GTTTCAGTTA TCCGTAGTCA
116051 AATCTGTTTT GAAATAGGT GGTATAGTA CAGTACAGA TATTTTGA
116101 GAAAGATTA GAAAGATTA AATTTTCTA AATTTTCTA AATTTTCTA
116151 CTTTCTTTTT TTTTGAAGG GAGTCTGCT CTGCTGCTTA GAGTGGAGTG

FIGURE 3, page 37 of 173

116551 TATAGAAATA ATGGGCACTT TGTGTGGTTT TAAATATTCA TTAGAGTGT
116601 CAGAGATATAT TGCTGGGAGA TAATTGGAGG CTACTGTATT CATTATTAAAG
116651 ATTATTAJST GGGCAGATAC AAACAACAC ATATAAGAG TAGGTAAAT
116701 TATGTTAACA GGTCTA AAAA ATTAACIATC ATTCTAAACT AAAAGATAT
116751 TAGAGAGCTT GAAGTTATAC CTCATTATTA CTGTTTACTC GAAA GTGT
116801 GTTTTGTCT AACTGGTTT CCAAATTCAC AACATAAAT GCAGTATTA
116851 GAAAAATTTT CATTCTAAT CTTCACCCA ATAATTTTAT TGTCAAAATC
116901 ATCTTTCAG GAAATATCAA CAATAACCTA TATTGAAAG TGTGTATATT
116951 GTTCTTAAST TATGATTTTA GGCTTATAT TTCTGGGGC AAAAATAAGG
117001 TATTAATGTG CTTTTATATA CTGTATATT TTTAAAGAA TTCTGCACCA
117051 GTGTGGGTA ACAAGATAT CTTTGAAAA TATTTTTCG TAAGTATATT
117101 TTATACTCTT AGATTGGST TTAAATATA TTTGAATTC CCTGATAT
117151 GTACAAAAAA AGAAATGAA GTATAAAGAT TGAAGGTTG ATCAAATG
117201 GGATTTATTA ACAGTGTGAC TCTATAGAA AATGAATGA ATTAAGATT
117251 AGAGTTASTA GGATAGGTA GAAAGTTTC TAAAGTAAA CTGAAGAAA
117301 ATAAATATGG AGGCGGCTTC CTTCATCATT GGGTGGTACA TTCAAAGATT
117351 TATCTTGGT GTATGTG GAGGGATT CTCTTCTTT GTGATGAA
117401 ATATATTCTT TGATAAGC ATTTCTTTA TCTATGATC TGTGATGTA
117451 TATCTCTCA ATTGGAATG TACATGACA ACTGAGAGA AGAAATAGC
117501 AAGAGAGAGG ATTTGAGAG GTTGTGGAGT TTCTGCTTG GGTGATGCT
117551 GGGGCTTTT TGCTGTAAA GACTAGTTA TGAAGAGAG GAAAGGTTGGT
117601 TTTTTTACT AATATGATG TACCAATATA GAGATTTAAG GGAATGAAG
117651 AAACAGGTAA ACTATGGGTC AAGGGAAGAG ATCATCTTC AAAAGTAAAG
117701 ACTAATAAAG AGATATATA TTTACCTAAA TTATATATA ATAAATAGC
117751 ATCTTTATGG CAGATAAAT AAAATATCTT CCATAAAGAT GTTAAAGAG
117801 GTCAACAGGA TACCAAGGTC AGCATAAATA AACTGAGGAT TTTAAGAGAA
117851 ATCTATATGA AATTTACCAA ACAGATTTT GGATCTGAAG AATGCAATAA
117901 CTGAATTGAA ACATTCACTA GAGATCTCA GCAGAGACT AGATTAAGTT
117951 AAAAAAAGG TCAGCAAAAT TGAAGACAGA TCATTGGAAA TTATGAGAG
118001 AAGCAAAAAA AAAAAAAGG AAGAAAAAAG GAATGAATGA AAGGATTCGA
118051 AGAAACATG ATCATGAGT CATGGGACAG AATCAATGGG CCATATACA
118101 CACATATTAT CTCAGTCTCA GACACAGATA AGGSAAGAA AGGGCAAAA
118151 ACTTATTCAA AAAAAATATA ACTGAAACT TCCAGATCT GGTGAAGGAA
118201 ACAGATATTC AGATCTAGA AGTTGAAGAG ATCACAAGTA AGATGAAGC
118251 AACTGGTCTA CACTGAGACA TGTATTATC AAAGTGTAAA AAGGAGATG
118301 AAAAAATCTG AAAACTCAA GAGAAAAAG ACTTCTACA TATTAGACA
118351 TCTCATAGG GGTATTAGTG GATTCTCAA CAAAAGTTGC TTCTTTTAA
118401 AAAAAACTCT ACTATTCTCT GATTATCTTC TTCTGCTTC TGTATAGTA
118451 CATCAATTTT ATTTTCTTAT TCAGTAAAT ATTATTGGA TTTTCTCAT
118501 TCTATTTT CTGATCTACT TTAATATGA TTCTGACCTA CATTGTTAT
118551 TTCTCTAGTT ATCTTGAAT ATTTTAAAT ACTCTTCTT CTTACTTCAT
118601 CACTATATCT AACTTAACT ATCTGAGTAC ACTTACTATG CTATTTTTAA
118651 TGTTTTGAAC TTTCTTTCT AATAATTTG GTTCTTTAG TAAAGGTCT
118701 CTATATTTT CTTCATCTC GTGTGCTTAT GTTCTTTAG TGTATTTGAG
118751 TATTAATTA TATATAATA CTAGTAAAT GTTGAATCT TAATATAA
118801 CTATATTA TATAATAGT TATGATTA AATTATAT TGAAGAA
118851 AAGTCTTA ATATTACTT TTTTCTTAA AATTTTAA ATATTAAAT
118901 TATAATTT TTTTATTT AATTATTA AATTATTT TAATAATA
118951 ATTAATTT TTTTATTT TTTTATTT AATTATTT TAATAATA
119001 ATTTTCTTT TTAATAAG ATAAATGAT ACTTATTTGA AATTCTTAAT
119051 TATTTTITAT AATACCTAA ATTTTITAT TTCTTAAAT GAGAGCTCAG
119101 GCTTTCAAA TGTCTTTGAA TTTGGTGAA AAAATTTACT TAGAGCACT
119151 GAGATACAAA ATAATGAAG CATACTAAT ACATCTTATT GTATTTGGC
119201 ATTAAGAAAG ATGCTTAA GGAAGAAAT GTTAAATCA AGATAAGTA
119251 TATATATTA AACAATTT TCTGATTT ATATTGAAT GTGATATTA
119301 AATAATAAA GATGCTGAT CAGAGAAAT GACTTAAAG AAAAAATGA

FIGURE 3. page 38 of 173

119701 GAATGGTAGA AATGGACAC AATGATGTGC TGCTGTGCAT CTCTTCTCAG
119751 TTTCATATTC TGCAGTAT TA AAGTGTGTA GTTTGAAATG AGTGTAGGCG
119801 TTAGTATCTA TACCTCAGAA ATCTGCAAGC ACCGCACTCTC AGGATTTGAT
119851 TTATTSTTTT GTAGATAAT TAAATTTAAG AAAATGATAG AGAAATGCT
119901 AATAAGGCAA ATTACAAATA AASTGTGTA GAGCTGTAG TGCTTATGTT
119951 GTATTAGCA CAAAAAATGA GGAAATATTC TTCTAGTATT CACAAACTAT
120001 TATCTAACTC AAATAAGGAG TCACTCATCT CGAAATATAA CAATGTAGGT
120051 TTCTACACCT ACCACAATTS CTTACCTTTC ATCTTATCTA TTATGATAAG
120101 TGAANAATATC AATCAACAAT CAGGTGAGAA CTACATTAAT TTATGAATTG
120151 CAACCATTTT GGTATAGAT ACCAGTTTCA SCAAAATTTCA ACTGAAGAAT
120201 TATGTGAGAA TTAATGTAGT ATATTAAGT TACAACAGAG TATGTATAT
120251 ATCTGTATTA TTCTTAAATF GTGTGTATTA CAACCTTTAT ATCAGTAAAA
120301 CTCTATAGTAA ACTGTCATAT GTATATAATGG ATATACATAT GTAGATTTT
120351 TAAAAATAGA GGTGGTGTCT AAACAATGT GAGGAGGGA CTACCACTGT
120401 GCACATGGAAT TAAATCTCAG ATAAATGGA ATATCTATTT AATTTCTCAG
120451 ATATAGGTTT ATCTTTTGTG TCACTGTCTC TCTCTTTTCT TCTCTCTCTC
120501 CTTCTTTCTC TCTTTTCTTT TTTTCTTTCT TAATCAAGCA TCACTAGATG
120551 GTCAAGGACA TGAGAGTATC CAGGAGGGA GGTATATATA GAATTTGTGA
120601 TTCTAGTTTA TCTTTTACAC TTCAAGAGA AAGAAATCTG CACTCTCAAT
120651 CTTCTTTGAT AGGCTGTGAT AAGATATAT CTCTTATATA ACATTTGTGT
120701 TAGAGATGGA AATCAAGTGT GATTGAGCAT GAGGTGTGCA AGTAAAAATA
120751 CTTGATTTCT GGAATCTCTG ATAAAGCTA TCTCAAGGA GCAATAAAGG
120801 CTAGTTATGA CCACTGTCTC AATAGTTTGA AAAATAACAG AAACTCAGAT
120851 TGAGATTGGA GACTTTTCTT GGTCTAGCT AAGAGCTCT AGTATTTTAA
120901 ATATGATTTA ACATAAGCAC AATTAAGAG GTATTTATTA AATAAGGTGT
120951 CAGGAAATTA TTTAAAGCAA GATTTTAACT ATGGGGGGA AGTCTGCTAG
121001 GCAATTTGAT GTAGACTTCT TCTGTCTTAG GAGAGGTTAT TTGTGTTATT
121051 TGTGTGTTGT TTTTCTCTCT AGTCTGAGGA TGTTGATTTA AAATTTGCTAA
121101 CAATTTGAAA TAGGAGTAG GTTGAAGTCA TGTTTCTGTA TTTAGTAAAC
121151 AGCCCACTA TTTCTATTTA AAAATAAGGT TGCAGAAATTT AGGTGTTTCA
121201 CTCCATCTCT TTAATACTGG TTTTCTAGT CTGGAGTTCT TTTTCTAATA
121251 TCATAAATAA AATATTTTCT CATTAAAAA TGACAAAAA TTATTACTA
121301 AGAAATCAAG GCTATTTCTT TGAGATTGAG AAGCAAAAAA TAATCCAGTT
121351 CACTTTAGAA CAAATCTCTT CATAGTTAC CACTGTAGT ATTTTGAGAT
121401 TTCTAGTTT TAGAATACAA GTTAGGATTT ATTACATGTT ATTCAGCAAG
121451 AATAAAGAAA TGAAAAAACC TTGAGCTTAA TAAATTCAGC ATACCTGTAA
121501 TGAANAATAA TGCTGGTATT CATCTTTTCT TGAGAGTTTA CTAGATTTTC
121551 CTTAAAAGAA TGGATTAAAG ATAGATATTC ACTGTATACA ATATTTTACA
121601 ATAAGGTTCT TTGAAATAGC AAGCTTCCAC TAATGAGCTG AATAAAGAA
121651 TAGCTAGGAT GGAAGGAAT GTAGTGAGTA GGTCTACATA CATATTGTCA
121701 CTACCAAGGA CTAGGCTCTT GTTATCTGTT CTGAAACATA CAGCTAGTAT
121751 ATATACATAT ATACCAATG GGCACAAGAG CTTGTGTCTC CTAACCTTCC
121801 TTCTTTTACA AAGAATAAAA TTATCAGTGG ATTGGAAGAG AGGTGGGAGA
121851 TTTTGTGTTT AAATTTCTTT CTGAGCTTGA AAATTTTTAA CTCTGACTCT
121901 TAAATTTGCT TAGTATTA TAATTTTAAA ATATATTTCA TTTTAAAA
121951 TAAATTTTAT TAAATTTAGT AGTCTAGATG AGTTATAGA GGTCAACTAA
122001 AAGTGTGAT ATATTAATAA TAAATTAAT TTAAATTA AATATTTT
122051 AAGTGTGAT AAATTAATAA TAAATTAAT TTAAATTA AATATTTT
122101 CATGGATTGA TACTTTTAA ACATAAATA CATATTAATA TAAATTTAA
122151 AATGAATGTT GTTAAATTA ATAGCATGGC TCTGTGTTATA CTATTAAGT
122201 CAGAAATCAA TTTTGAAAGT TCTTCCAGAG CCACTTTTATG AGCCATCAGT
122251 GAAAAAGGAG GTCTTATTAT GTTTCAAGTCC CAACACATTT TTGATGAAGA
122301 ATGTATAAGC TCTCTTTTGT TCATACCAAG TCTCTACAG TGGGCTTTAA
122351 ATGATTCTCAG GCTATTTCTT AAATCAAGTC TACTCTCAAA GAGATAAAAC
122401 AATTTTCTG TTAATTTTAT TAATTTTAT TTAATTTT AATACTTT
122451 AATATAATTA TAAAAATTT CAAGAAAGAT GTTTAGAAAT TATGTTGAT

FIGURE 3, page 39 of 173

123851 ACCTAAATGG ATGTTTGGAG TTAATCATGT CACTTAAATG TGGCATGAGA
123861 TTTTAAATAA AAATATAGGT ATCTAGAGTT TTTAGGGTTT CTCTAGATG
123871 TTAGCTAAGG AATTTTATTG TTTAAGGACT GTTTATAATT GTACTTTTCA
123881 AGTAATACTG AATTCATTTC AATAATCAGC CTTTATCTCA TTCATTTCATT
123891 GTTTCAGATCA AGTGTACGCA ATAAGCTAT AGAAAAAAG GGTATTATTC
123901 TTAGCTAAGG AAAACTGAAA ATAAATACGT GGTGACTAAT ATAAAGTCAG
123911 GATAAGAAGA CTTATGCGGA AAAATTAAGC AAAAGAGGGA TGTGTTAAGG
123921 AAGCGCAACT TAATCAAGAA AGTCTCTTT GAGAGCTGA CAAATGAGCA
123931 TAAATCAAGG TGCAGATAGT GGAATATGTG TCCTACAGA AGGAACAATT
123941 GATAGATTTC TGAAGGATTT GAAATAGAC AAGGTSAAA TTGAGGCTGA
123951 ATAGCAATGA CCAAGAGCTT GGTATAAGA GAGATGACC TTGCTTAGG
123961 AAGGAGTTTG AAAATTAATG AAGAGGACAG TACCTGAGT CAGATCATTG
123971 GATCTACAT GCTAGTTTGA TGAATATTTA TCTGTATACA ATTTACCTAA
123981 GTTCTCATAG TTTTGTATGC CCACTGCGCA AATGGGAAA GCAATAGTAA
123991 GTTCTCATAG ATCTGCAAT TAAATTAATG GATGCGACT TTAATGTTG
124001 TATAAAGAT GACATATTA GGTAAAGAA AGTAGAGAA TGAAATAGTA
124011 TTTTTTTAA AAAAGACAT TGTGTGTGCA CATATTAAGA TGGAAAGCT
124021 TATTAAGAT TAACTTTTA GTTATCTTT GTAAATAGG GTTGCATGC
124031 ACTTATTTCT TTAAGGCTTC TGTCAAGCAG GTTCAATTTA TTACATTTA
124041 GTTTTAGCTG GTTTTATTTA AAGTAAGACT GTTCTTAGG AAGATGATAA
124051 TAAAAAAGG AAGGTTTAA TATTTTTCCT AATATCAGG AAGTATTAAA
124061 TTTTCTTAA AGAATTTTTT AACAGGAGA ATTATAAATA TAAGAAAATA
124071 ATATACATCA TGGCTTTAAT CACAGATTA GTTCAAGAT CATTAATAT
124081 TGTGTATGTA AACTATTTG AGTATTTAA TATTGTGTA AATGTTTGAT
124091 CATATTTTAT GGCAGAGTT TGAATCATAT TGGCTCTCTG CAAAACTTGT
124101 GTTCTTTCTT CACATAACT TATAGGATTA AATAGCTGG GTATAAGAA
124111 GTCAAGAGG TTTTGAAGAG GGCCTAATAG TCAATCATAT CTTCACCTAT
124121 TCAGAAAGGC CTAATTAATA ATAACTAATA ACCTTTTACT GTAGCATGTA
124131 TGTCAATAC TATATTAGCT GGATTAAGTT TTAATTAAG ATGGTGGTAA
124141 TGTAAAGGAC TCAGCAATCT AGGAAACAGA GATGAAGAA CACATATAAT
124151 CTATCTTTG TTTAAAGAGC AAGATCTCTG AGCTCAGAG AAAATGCTAT
124161 CTGTTTAAAA GTCAAGAGG ACATAAGACT AAATTTTAA AATAGCAAG
124171 CTAATTCAGT GGCCTTTTAG TTTTGGAGAA CAAATTTTGA TAGAATAAAT
124181 AACAATCAGG TCACTAGACT TCAAAAAAA TTGAAGATTT AATTTTTAGG
124191 TGGGCTTTTC TTTGTGTGCT GATCTGCAGC CATGAAGTAC GAGAGGCTTG
124201 TTTCAATTA GGCCTAGGAC AATCAGAACT TTGAGAAGAT TTCTTTTGAT
124211 ACTAAGTAAG ATAAATCAT AGAAAAGGAC TTGAATATG GAAATCCACT
124221 ATTTTAAAGC TATTTTATAT AGATAGACAT TGTATTTTGA AACTTTTAGA
124231 ATAAGAAGCA CAGCAATGAA GGAAGACTAA GGATAATAA AATTTTAAAT
124241 TTCTTTTAAA AATTAATAAG ATTTGTTAAA GGACCTTCCG AACTGTGCTG
124251 TGCACAGACA CACACACACA CACACACACA CAGAAAGACA TGCTCCGAGA
124261 TCGAAGAGTC TATACTGTAA ACATATCAGA ACAAGGAAA TTAATCTATA
124271 CATTTAACAT AATTTTAATC AAATTTAATT CTAAACATAC TTCCCATACT
124281 TTTCACTTAT TTTTAAGTAA AGTTTAAATT TTGAGATAAT TGTAGCTTTA
124291 TTTTAAATTT TAAGATATTA AAGGAGAAA TATATTTA CTCTATTAAG
124301 TTTTCAATAT GGGAAAACT TGGAAAGCTT TATTAAGATA TAAATTAAG
124311 AATTTTAAAT ATCATTTT TAAATTTT TTTTCTCA ATTTCTAAG
124321 TTTTATTTT TAAATTAATA AATTTTAA ATTTAATA TTTTAAAG
124331 TATTTTATG TAAATCTTC TTTTAAAG TTAAAGTTT TTTTAAAG
124341 TATAGTTAT AGGGAAGCT GATATCTGCG GGACATTATG GATTCAGTCT
124351 ATCATACCAA CTGATATAGT TTGGATATTG GTCCGACGCG AAATCTCATG
124361 AAGAATTGTA TTATCTGATG CTGGAGATGG GTCTGCTGG GACATGTTTG
124371 AATCATGGGG GTGGCTGGCT TATAATTTGG TACTGTCTTC GTGACAGTGA
124381 GTTCTCTTAA GATCTCTGA TTTTAAAGTG TGTGGCACTT AATCACTCT
124391 TTTCTCTGCG TTTTCTCATG TGAATCTCTT ATTCTCACTT CAATTTCTG
124401 TATATTTTAA AGCTCTGA AATTTTAA GAAATAGATG GTTCTTAA

FIGURE 3. page 40 of 173

126001 AAGAATTAAA ATTTAAGGAT AATATTTTGT TTGATGGGSA AATTATATAA
126051 AATCTAAATP TCAGTGTGCA TAAAGTTTCA GCGAAGACA GGAATCCTTA
126101 GTTTACATAT TGTCTAGACT GTTTTTCATA AATAATGSA GAACTGASTA
126151 GTTGCAGAAA GAGCTATGTG GAGTGCATTG CTTAAATAT TACTATCTG
126201 GTCTCTTATA GAGAAAATTT GGCACCGGCT TGTTTAGAA TATTTATGTG
126251 GAGCTCTTAA GGTTTTAAAC ASAATTTTTT AAAAAGACT AGCTGCTTA
126301 TTGAGTAACT TCTCTAAGAT CTTCTAGTGA ATATTTAGAA GGTTTASGAG
126351 TGCATATTGA TGTGACTTTG ACTAAGATA TTGTTAATGT AGCTGCTTTG
126401 TCAGCTTAAT ACATACCTTA TTTTCTGCTT TTAATGCTCT TTGTTTTTAA
126451 TATTTCAACT TCACACTAGG TGGCTATCTT TCTACTCTTT GCAGCTDAGG
126501 TTTTCAAGAT TAACATATAT GAGTCTAGT GGTCTAGTTT TGCTCTDAAA
126551 ATTTTCTGAA AGAAAAATTT CACTCTGGA AGCAAGCTTC AATTTCTCTT
126601 CCTGTCAAGG GCAACAAAAA CTATTAATAT AACCTCCAGG CTGAGTCTA
126651 TTGCTCTGGA CTTAACTATT TAGCTTCAAG CTAGACATAA TCTCTCASTA
126701 AATACTGATG AATACTAGT AAAAGGAATA GGTCTGCAAG GAACCTCAAT
126751 ATTTCAACTA CAACTCTTAS AATAACTATA CATTTGGTAG GCACTCTTGG
126801 TCATCTCTGT AACTCGAGCA CTCTGAGAGG CCGAGGCTGT GGAACACTG
126851 ATTTCAAGAG TTTGAGACCA GCTGAGCTAA CATCTTAAAA CTTCACTCTT
126901 TCTAAAAATA AAAAAATTAG CTGAGATAG TGGAGGCTGC CTGTAATCTC
126951 AGCTACCTGG GAGCTCTAGG TAGTAAGATG ACTGAGCTCT GGAAGCTGGA
127001 GGTTCGAGTG AGCTGAGATG ATGCTATCTG ATTCAGCTCT GGTTCAGCAAG
127051 GGCAGAACTC TGTTTGAAGA AACAGAGCAA ACAAGCAAAA AGAGAAAACA
127101 ACAAATATAA TACTAGATTA CTCTATAGTG GTGCTTCAAT AGAGCTTTAG
127151 CTCAAGCTTT CAATCTATCT TTAATTTTTTA AATTAATATA TTTTCTATCG
127201 AAAAATACAT GTCTAGATTA AAAATCTAAG CTCAAGCATA CCAATTATCT
127251 TATATCAACT ACTCTTCACT TTGGAAGTAG TTTCACTTAT CAGTAATTTT
127301 AATTTCTATG CTAGTAACTA AACTAGGCTG AGCAACTTTA TGTAACTCTT
127351 CATAATCAAG TGTAAACATA AGCTCTATTT TTTATCTTTC TTAATCTTAA
127401 AATAAACTTC TAGGTATTTA GTAAGCTTTG GATCAAAAAA ACTATTAAAT
127451 TTGCTCATAG GTACAGCTCA CGAGACATGT CTTCTGTGCA TCAGATATTT
127501 TGTGGCTCAA ACAGCAGTTT TCTTAACACT TCTTTGTCTC AGAATTTGCC
127551 TTCTCACTTG AGATGCTCTC TCTTTCTGTC TCAACTGGTG AATAAAGGAA
127601 TCTACAGCTG TGTTGCTCTC TGCAAGTAAAT ACGTCTGCTA TGTCTGCTTT
127651 TTCTCACTCAT AAGAAATTTG CAGGAGCTCT AGAAGGCTCT GGCACACAGA
127701 CCAAGCTCTG GAAGCTCTCT CTCTACTAAA AATGCAAAAA TTAGCTGGGT
127751 TTGCTCTGCTG GTGCTCTTAA TCTCAGCTAC TTGGGAGCTT GAGGCAAGGAG
127801 AATCACTTAA ACCCAGGCTAT TCACTCTGAA TCAGTTATTT GAAGCTCTGTA
127851 CACATCTTTT CTTCTAGATG ACTAAAAAGG AGAGTGATTA CAGGCAAGTA
127901 GCTACAGCTT CCAAAAGAGG ATCAAAATGG CATTTTACAA TCAAACTGTA
127951 ACATCTTTTC CTTCTAGTTT AACTCAAGTA AGAAGAACTT TCTCTCTGCC
128001 TAGCAAGCTT CAGTGAAGTG CTCTGACAGG TCGCTCTGAA AGTGAAAGCT
128051 GAAATTCGCT TCTATGCTTT TTAAATGGTG ATCTAAATGA TACGTCTTGA
128101 AAAGTGACAG CAAGTAAGTT GCTAAAAATA CAGTATTAAA GTATTCATAT
128151 ACTAAAGAGG ACATATAGA TATTTTAAAG ACTCAAGTT AACTTATTTT
128201 AAGAACTTTT TGAAGAGGAA TTGCTCACTT AATCTCTAT TTGCTCTCTT
128251 TTTAAATATA CTCTAAAGG TGTCTCTTTT AACTCTAT TATTTTAAAG
128301 TATTTTAAAT TTAATTAAG AATCTCTAT TAACTCTAT TATTTTAAAG
128351 TAACTTAAG ATTAATTAAT TATTTTAAAT TAACTTAAG TATTTTAAAG
128401 AGCTCTTTTA CACTCTAGT TTTGCTCAAG ATTTCTAG TTTGCTCAAG
128451 CAATTTTATT GAGTTAGGTA GAGATGGAAT TTGCTCTG TGATAAAGTA
128501 AAACAGAGAG CATTTTCAAG AAGAGAGGAA ACAGCTGCTC TCAGAACTGC
128551 AGACAAAAAA AAAAGCTGCA TCACAGGGGG AATTTTCTGT GATTCTCAAA
128601 AATCTGCTTT TTTTCAAGTG ACATTAAGCT TCTTCACTTT GTTTTCAAT
128651 TCTAAAGATG CTAAAGATTC ACTGCTTAAA AATATAGAG GAAAAAGCAT
128701 TCTAATTTT AAAATTTAAT TATTTTAAAT TATTTTAAAT TATTTTAAAT
128751 TTTGAGGAGT AATTAAGCT TATTAAGGAA ACTTCTAT TTTTGTAAAG

FIGURE 3, page 41 of 173

129151 CCGTTTCGAA GTTTTGAGTT ATGTTAACTG CTAAAGAGTA ACATGACTTG
129161 TGGGCGATTAG GAAAACGTGG TCCAAAGGTG AACGGGCGACA CAATAGCTCA
129171 AATTTATTCT TATAATGAAA AAAATAAGAA CTAAATTTTG TTTAAATCT
129181 ATTAATGAAA ATGTAAGATG AAGATGAGAG TGGGCTACTA CTTTGGATTT
129191 TTGTTGAGGA ACGTACGTGG CAGAAAGGCTT TCAAAATGTAT AACCTGTTTC
129201 CCAAAAGAGC AGGCAATTTCT CCGATTTATA TTTTATCAAG TGTCTGCTGG
129211 CCAAGAGCTG TTCTCAAGTG CTTGCTTGCG AAGGCGAGAG ACTAATAGAT
129221 TAATGCTGCT AATAAGAGCG TCAGTGAAGG AGTTCTAAAA ATAAGTACCG
129231 TTTCAAAATG TCTGCTTATA CAAAGTCTGG ATGATAACAT CTAATTTATT
129241 CCGCTAGGAA TATTTGAGG CAGAGTGGTA TGGATGAAAT AAAAGAGGCG
129251 TAAGAGTATT ATGTAAGGTA CATTTCTGCT TAATAACTCT GCGTCTGCGC
129261 CTTCTGCTCT TCAATATGCT TTCTAAAGAG TTTCTTATTA TTTTGAAGCA
129271 AATATTTTTT CAGATAGATG GAAATGTATT ATAGAAAGTA TAAATGTAAAT
129281 TTTAAACATG TTATAGGTTA AGTTTCTTTT TCTGCTGCTG TGGATTTGAA
129291 GTGACATTGA AGAGGATCAT CATACTAATG CAAAGCAAAA TTGAAAAATG
129301 GCGGTTTGTA GCGTAAGACA CATTTCTGCT GCTTGAAGTG TAATATATTA
129311 GAAGAAATGG AGTAACTTTT TAAATTTAT AAATTTCCCA TTAAGAAAGG
129321 AAGGCTGCGA GCTCTGCTTG AAAAGCTTGA AGATCTGCTT GCAATAGCTG
129331 TATATTCAGA AACAAGAAAA ATCAAGCAAA GCTAAGTAGC AGCAATGCTT
129341 AGCAGGCGAG TCTGGCGAAT GTTCTGCTGA ATCTCTGATA CTTATTTGCA
129351 CCGTAAGGAG TCGTTCTGCT ATATATCTAG TCTGCTCCCA CTGATTCAT
129361 GATACAACT TCTGCGAAG GCTTTTGAAT CTGTGAGCTT TATTGAACT
129371 AAACAATATA ATTAGAATGT GTCTCTGCT AAATATTAAAT AGAATATAGT
129381 GCTAAGCTTG TTGCACTTTG TTAGGCTGCT GGTAAACACA GCTTTCTGAT
129391 GACTAATGCT GCAATTTCTG TTAGCACTGT ACTCAGCTTC TCGGAGGCG
129401 CAGTTCGAAA GGACAAAGCA TAAATAAGCT TGGGTCATTA GCAATCAAT
129411 GGAACAAAA ATAGAAAGTG TAAAAAAAT CTTAAAAATA AGCTTATCTA
129421 ATTTTATTAT ACATGATGCT TTTGTAATTT ACAGCTTAGC ATTTCTTTCT
129431 TTCAAAATGT TATGCTATG CCGACATTTA TTTTAGTGCT TCAAGCTCTA
129441 TAAAAAGTTT GTCTGCTAA TTCTGAGCAA CTGCTTTTCA AAGCTCTCT
129451 TGAGTCTGCG AGATAATTTT GCGTCTCAGA TTTATTTTCT AGGATATGGA
129461 GCAAGGCTAT TTTAAGATCT GAGCATCTCT GCTCAGATTA TTGGAAGCTG
129471 TTTGCTGCTG ACGCTGAAA ACTAATTTAC TTTGCTGCTT GCTCTCTCT
129481 TTTCTTATCT CTCTTTCTTG ATGCTCATTC ATGTGAGAA GGGTCTGCTG
129491 CTTTAAATCT CTACTCTCAT CTTTCAAACT TCTAAGTTTA AACTAGCAAG
129501 CTGTATATCT CTATTAATTC AGTGACAATA TACAATTTTA AGGATATGCT
129511 ACATACTGGG CAGTCTGCAA GCGTACAGAT TATAAGTTTG ACAAATATTC
129521 AGGAGGGAAG GGTATTTCTA AAGCTTAATG AAGATAAGAA GTTCTTAGGG
129531 AGGCTTGAG TAGAGCATTT GACAGGCGAA TGATGCTAA CAAGTCAGGA
129541 GAAAGGAAT CTGAAGCAGG TAAAGAAAAA AAAGGCTTAA AGATAGAGTT
129551 TGCTTGAGGT TATTGGAAG ACTATAAACT GATCTGTTTG GTTGAAGTAA
129561 AATTTTACAA AAGAAAGAGG GGAAGAGATG TAGTGGACCT TGAATTCGAA
129571 GTTTAGAACT TCAAAAGTTTA TTCTACATAG ATAAGAAATA GCTACAGAA
129581 ACTGAGAGTA CCACTCTATG TGAAGCAATTA AGAATTTCTG CTTTATGAA
129591 CTAATCTAT AGATATCAT TAAATTAAT TTTTATAT TTTTGGAG
129601 GGAALACTCT TAATGCGCA TGGCTTGAAG ACTTTCTTTT CCAATCTTTT
129611 GTTATATCT CAAATTAAG TAAATTAAT TTTTATAT TAAATCTTTT
129621 CATTATCT CTAATATAT GTTATATA TTTTAAAT TAAATCTTTT
129631 TCAATCTAT TCTGAGCTAA ATATTTTAA ATACTTTCTT TTAATTTT
129641 GTTTTAACT ACTCTGAAA TATTTTCTT CTGAGGAGT AAATGAACT
129651 CTATTTAAT ATCAAGATAA ACCTAGGAGA TAGGACTTAA TACCTCTCT
129661 ATTTTGCAGA TGATAAAAT AAACCATATT TCGAAACTTA GGGATAGTA
129671 GGGTACAACT AACTTTTAA TGAAGAGCT CAGCATGCTA CTGCTGCACT
129681 TCTCTGCTAT ATAAAGCTTA ACCTGATTC TTCTATTTCT ATAATCTCT
129691 AAATAGTAGC ACTAAGAGAA TAAAGCAAT TATTTATTA GTGCTACT
129701 TGAATTTCT TATATCTCT TGGTACCAAT ATTAATTAAT TCAAGAGATA

FIGURE 3, page 42 of 173

132351 TTAACATATCT CTCTCCCTCC TTTCATATCT TATTAAAGA TGAGTGTCT
132351 CCTATAGAG GAAACTAAT GGTCTACTTA TACCTGTAGS CCTGTGTCC
132401 TCAATA TTT CCGGACTTTG ATCTTAAT TTTTATTTT TAAAAATT
132451 TTTTTTTTC TCTAGTCTT ACCTCATATT CCTGGGCTA TAAATAAA
132501 CAGCTTAGCT TTAATAAAC AAGATTTCT CTGGGCTTA ACAATAATCT
132551 AGCTGTCTC TCAAGTCTT CATTCCTTT TCTTAAGGAC TCCCATCTT
132601 ACCTTGTCAA TATTTTCTAT GTTTATTTGA CAATATATTG TTAGGGGCT
132651 ACTATATGCT AAGAACIAT CCATGGCTT GAAATTTAC ACTAAACAAA
132701 ATAAAAATT TTCTCCTAT TCGTATTACA TTCTAGAAAG TATATAAT
132751 TATTAAATAA ATAAACATAT ATTTACTGT GAAATTAAS AGAGCCACA
132801 AGAAAAATAG CGTAGGAAAG AAAAAAGGA ATAGATGGG TATATATAA
132851 TTTTAAGAAAG ATCAGAGAAG GAGGAATGAC TGAAGAGAA ATATTTGAA
132901 AAAGTTTAA TGAAGATGAG GAAGCAGACT TCAATGATAT CTGGGAGAA
132951 AAGAAAGCAA GGTAGAGAG ACTGAGACT AAATATATCT GCTTATTCTA
133001 GAAACACCA GAGGCTGAGT CTGGGAGAA CTGATCAAT GGGGTAAAG
133051 TAGTAGTAGG TATCTGAGA TGTGCTGAGT GATGCTCTT TTTCTCTCT
133101 ACTGTATCT TCTCTGCTT TATTTCTT AGATATTAA TACTCTCTA
133151 TATCAGAGCT ATTTATATAG ATTTCTACA TCTTATTTG AATTTCTAT
133201 TCTTACAGT AGTATTAATC TTCTTACAG TAGTATTTAT TCACTCACAG
133251 AGACCATCT TGTCTCTCT ATATATATAG TCTCTCTCT TATATTTCT
133301 TTAACATAT TAAATATAG AATATGAGC ATTAATAATG AAGCATTTCT
133351 TTCAAAGCAT ATTTAAATTT ATTTTATTTA ATTTTTTCTA GATACAGCTG
133401 AGTGTCTAGT ACATATCTA TGACAGAAAG TATCTAGTT CTATCTCTA
133451 GTTGTAAATA GAATGATAT TATTAGTCAA TTTGGGCTT AGCAAGCTAT
133501 ATCAATGCTT TCTATCTTAA AGGTATATGA TCTAGTCTT TTTTACCTCT
133551 TATTAAATTT TATGAATCTT GTTTGCTCTT TCAATCTTAA AGAAGTCTTA
133601 GATATCTCTG AATTAAGCTT AATTTATAG CTAGATTTCT TTTAAAAAG
133651 TAAACAAAAA TGAATTAAT TATGCTCTT ATAGTTACAG CAATTTCTCT
133701 TGTCTTTCTT TATTTCTAA ATCTACAGAG AATTAATGAT GTTCTTTGAA
133751 TGTAAAACTT CTTTAGGCAA AAAAAAGGAC TGTGAGAGA TGTGTTAATA
133801 AGTTGTGTTT TTGGGCTTGA TGAATGCTAT ATTCTAGCTT GCTGTTAAAG
133851 AACACCATGA AAGGCTGAT AGCTCTTGGC TTTAGAGAA ATAGAGCTCT
133901 CCGCTCCAA TGTATCTATT AAGTCTCTCA GTTACAGAG CTGTAATATA
133951 TAAAGTATTT GTTTAAATGA TCAGACCAAC CTCTAATCTT AGTTATTGCT
134001 TTTTAAAGTA TGAGAGGCAA TTTTAACTT ATTTTTCTT ATCTGGACAA
134051 GCTATTGCTT AAGCTCTCTT CTTCTACAG GATGCTGCT TCTAGAGGCT
134101 GTGCCATGAG TGTCTCTCT GTGAAGGCAA TTAGAGGCAA ACAATTTATC
134151 AAGAGCTCTT TAAGCTCTCT AAATAAAAAA CATGTTACAG AAGCACTAGT
134201 TAGTATTTCT TGTGAGGCTT TGAACATCTT TGATTATGTC AATGCTAGG
134251 GTATTAAGAG TAAAAAGCTT GTTTTACTCT TATCTGAGCT CTTGACTGCT
134301 CTCTGCCAT TGTCTAATAT GACTCTGCTT GGTCTCTTAA TGACTGTGAG
134351 CATCAGTCTT CTCTCTGCTA AATAGGGGAA AATAGGGGCT CTCTTATAGA
134401 GTTGTATGA GATCTGATA AAGCACATAA AGTACATAGT GGGAGTATA
134451 TCGAACTCTT TCAATCATC ATTATCAATA ACATACAGAC CATCTCTCT
134501 ATATATAAT TATCTATTA TTAATAAA TATCTCTAT TATATTAAT
134551 TATCTCTCT TATTTTATC TATTGAGAA ATATCTGCT TTTTAAAT
134601 TTTTATCTT AAAAGGCTA TTTTAAAT TATCTCTAT TATATTAAT
134651 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
134701 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
134751 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
134801 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
134851 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
134901 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
134951 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
135001 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT
135051 TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT TTTTAAAT

FIGURE 3. page 43 of 173

125451 AATAAAATTCG CCATTACAGC TTACAGTTGC ACAAGGTTGC TACTTTTTAA
125501 ATA TTTTAAA ATATACGATT CCATACGTCG TTTCACGTTG ACAGATAGTA
125551 TCTTTAGTTT CTAGATTAAG AATAAAAT TTAAAGATGTT GTTATGTTT
125601 CAATAAAACC CCATGACAGA ATATGCAATG TGTCACAG GTAAATTTCTA
125651 TACATTAAT AGCATTTTTA AGTACGAGAT TAATTTATG TAAGTTTCTA
125701 AGTGTATTAG AAAATATATTG CATCGTTTCT TCTTTATAG TATGACATG
125751 ATTTCACAT ASCGGAAGTT TGTAAAAAAT GTAAATTAAT AGACATGAAT
125801 TATGATTTAG AAAAATTTGC CCAATTTCTA ATTAACAGTA TCATTAAGAG
125851 TGTAAAAAAA CTTAATTCAT TTCTTTTAAG TTCTATTCAT CTAAATTTTA
125901 TCAAAAGCAGG GATTTTAAAA AATATGAGAC TCTTGAATTT CCCTGAATT
125951 TCTCTCTCTT TATCTCAAGC TACTTCTGAT TAAGAAAGCA CGAAAAAG
126001 ATTCTATSTAG GTTCTTATG TGTTTGCATA CATTGCTTA CCAATATAGCC
126051 ATTCTCTCTT CAATCACTAG ATATGCAAG TGGAATTCAT GGTTTTGGAG
126101 ACAGATGCTT AACCAATTAAG CTAAAGTAG CAGGTAAGCT GAAAAAGAG
126151 ATGAAAAAGG ATTGGCTTTC CCATTGCTCA GTAGGTTTCT TTTCTATTTG
126201 TATCTCTCTA AGCTGGAAAG AGAAATTTCTA CCTGGAATTA GCTGGAATT
126251 TTTGAACAGC ATATTTAAAA ATAATAGCTC TTTAAAAAGA CAAAGGTTTC
126301 TGAATTTTAG CACTTATTTT CACTTTGAAG CAAAGGATTA AAATCATAAA
126351 ACAGATGCTG TAATTTCTAT ACATTAATTT GTTCTGTTTC AAATCTGTTT
126401 AAAATCATGG GAAGAAAAAG AATTTCTTAT AATTTCTTT CCAAGGTTTT
126451 CAATAATTTA ATTGCTTCTC TAATTTGAAT TGTCTGTTT GTTCTGAAAC
126501 ATATTTAAAT AAGAAATATG ATTTGCTATT ATTCTGAGC TTTTAATTTT
126551 TTAATCTATC AACATTTGCT CATTCTGAG CAGGTAAGTT TCTCTGCTG
126601 AACTAAAAAG TAGGAAATAT TATCTGATTT ACTCAAGGTC AATTTATATT
126651 TCAATGCTG GGGAGGATA AGAGAAATAT TAAAAATAT TCTCACTCTG
126701 GGAATATTTA CCAATTTCTA TATGAAAAAG TCAATATATG TATTTGCTA
126751 ATATTTATAG TTTCACTGTA AATCTTTAAA ATCTGTTAG CAATATCAG
126801 TATTAATATA AACAAATCTC TTCTGCTTTT ATTCTTATG TTAGTAAAAA
126851 AAAGTTTTAT ATTGTTCTCT TGTCTCTCTT TTTCAAGAA ACTCAATAT
126901 AATTTTTGAA CAGTTGGGAG GTCTGATGCT TCAATCAAGC AATTTCTGTT
126951 TCTGCCATTTT TGTTCAGATC ATATATCTG TCTCAAGAT GCTAAGCAT
127001 CTAGCTGTAT TGTCACTATT TCAGATGCTC TCTGTTATTC TCTAGTACT
127051 GTGATGACTA TGGTATAGGG GATGCTGCTC TACAAAAAGT CAATTTTAGT
127101 TCTCAGTTGA ATTGTGAAGT AGTTAAATTT TAGGTTTTAT GCTTTGTAI
127151 TTTTAAATCA GTTTTTAAAT TCTTTTCTCT TTTAAAGAGA TTAGTATCA
127201 AGTAGACATC TTATACAATG TTTAAATTC TCTGCTTTTA AGCAATGCTG
127251 TCATTTGAAA TTGGTTTTTT ACTGTAATGC AAACATTTAT GAAATAATAG
127301 ACATTTCAFA CATTCAATCA AATATTTCTT GTTCTAAGAT TCTTTATTTT
127351 TGCTGGTTTT ATTATCTAAA GTATAATTC TTTAAATCTT GAATTCATGG
127401 ACTCTATCCC TTTGAGGAAA CAAAATTAAA AGTTAAGAGT TGAGACATGA
127451 GTGTTATTAT ACCCTGTTAT AGCAATTAAC CTAGATTTGA ATTTGAACCC
127501 GGGGTCTAGT TTTTATGGGT CATTAGCTAT TTCACTTAG ATATATTGCT
127551 TAAGCTCACT GTAATTTAGG TGTCTCAAA ACAGGATAGA GATAATAATG
127601 CTAGCTCTTT CATGCTTTT TTGCTGCTT TAATTAATTA TCTTTATTT
127651 TGTCTCATAT TTATTAATTA CTATTAATTA TTTCTTAAA ATATATATCT
127701 TATTTAATAA TTTAAATTA CTATTTCTTT AAATTTAT CTAAATTAGT
127751 ACTAAAAATA AATTTTAT TTTAAATTA TTTAAATTA TTTTCTTT
127801 TCTTTATTA ACTAATTA GTTTTAAAG TTTTAAAG AGGATTTAT
127851 TTTTTTAA CCAATTAAT ATCTTTTA TTTTATAT ATTTTAAAT
127901 ATAAATCAAA CATTCTCTT AAAGAAAGAT TTTGCTTAAT TAGGAAGAAA
127951 GAAATATTTT AGAGATTTAT AATTTCTATG ACCAGAGAGG ATGAAGAAAG
128001 TTTACTGGA AGAGCTAAAC TTTAAGTGAG ACTGAGAGG AGAAATAGAA
128051 ACTCACTTCA TAAATCAAG AGTTAGGAGA ACATCTCCCA AGAACAAGAA
128101 TCAATTTTAA TTAAGGAGA GATTTCTAAG AGAGAAAGGA GAATTAGAGA
128151 TTTAATTTT TAAATTTATG AAATTAATTT TAAATTTAA TTTTATTT
128201 TTTT TTTAA ATATTTGAAC ACTGTTTAA AATTTTTTCT TATCACTCT

FIGURE 3. page 44 of 173

141751 TCACCAAAAA AAATGATAAG CATGTGAGGT AATGCATATG TTAATTGTCT
141801 CAATTTAGGG ATTTTATAATA TGTATACATA TTTCAAAATA CATATACATG
141851 ATAAAGATAT ATAATTTTTT TTTTGCATTT TAATAAAAGT GTAAATATGT
141901 CTGACAAAAA AANAATTTTT CCGACATAGT AACTATTTCA GAATTAATTC
141951 TACTCTGCCA CAAAACATAA ACTTCGAGAA ATAAATACAG GTAAATGAGA
142001 STAATTATAA CATAGGGGGT ATTTTAAATG CACTAAATAT TTTAAGTGCA
142051 TTTTCTCATG TATCTCATG STASTCCCAT GATSTTTATC TTTATGTCCT
142101 CATTTTACAG ATGAAGAAAT TGASSTTCAT FGAGGAGAAC TGAAGAGATA
142151 AAATAATTTT TCTTATAAGT AAATGTAGAA CTAGAAAAAT AATTACAGGT
142201 CTSTTTGATG TBAAGGGGT CTCCTTTTAA TATSCAATTC TTTGAGTTT
142251 GGTCAAAACG AGTTGATCTT TAGASSTCTC CAATTTGTAG CTATTATAAA
142301 AGAATGTGAA ATTTTATGTT AATAATAAAC CTCTTTTCTA AATGGCATAT
142351 TAATAAGGCT GAAAAAAAT CATSCAATGC AAGTTAAAAA AAAAAAATA
142401 AAGACGGGCA TTAAGTTTAT CTTACAAAAC AAAAAAAATA TACATTAAT
142451 GACCCAGAGA AAAGAATCAC AGGCAGAGGA ATGATTAATA GGGAAATTTA
142501 GTGCTTATAA GTTGTATATG ATTTCAATAC ACAATATAT ATGCTATGCT
142551 ACATAACATG CTAGAGAGAA GGCATTAATC TAGAGAGATA AAACAGTTTC
142601 TCAATGATAT GGGTATATTT TCATTATATG GTATAAAATC TTATGTTCTT
142651 GAAAAATTA AATGTCTTAT GCATTTCAGG TTAATAACAG GAGAAATGCA
142701 GACTCAAGGT TGAGGAGAGG TAATTCAGAA AAGGATGAAT TAGAGTTTAT
142751 GAAATTTAGT CTTCTGTGAT CAACTACGTG AATGTTCGAT CCAATTTCTA
142801 TGGGCTCTGA AACTATGAGA GTAGTGGGGG AACTTAAATC TTAGGAATAG
142851 CAATAATCTA CACTCAAAAT ATTGGAAATC CAATTTGGGA AATTAAATAT
142901 TCTTATTTCT TTCAAGAAAT GAGGCAAGTA ACATGAGTTC TTTTCTCTCT
142951 TTAGATAGAA AGGCAAAAT AAGGAATTA AATTATAGGA GCAATTAAGA
143001 TGAGGCAAGC GAGGTAAAGA GAAGCTAGTT GTTCACTGCT TAAGTCACTT
143051 TAGCAATTAAT CTGATGCTTA TTATTATTTT CATTTTCGAA CATTAATATA
143101 TAAAGCACTG ACACAGAAAA TCATGCAAAA CAATTTCTTA GCATTATGAA
143151 TTGTTATAAG ACAGATATTC TTCTATCTCT AACTAGTTTG AGAAGCATGG
143201 GGTATCACTT GGGGAGAGG GCGCTTTCAT GCTCTCTGCG AGTCTCAATC
143251 CCTTCTCTCT CTTCTCTCTC CTGCGGACAA AATAAGAAAT ACCCTCACTT
143301 TAATATTTAT AATTAGAAAT TCTTTTTCGA GTTCTCATTC CATTTTCTAT
143351 ACTTAGACAC CATAGTTTAT TTAGCTTCTC CCAATTTCTA TCAATTTACA
143401 ATGTGTTTAA AATTATTTCA ATCTACAGGT TGAACCTTCA TCGCTTATTT
143451 TTCTTATAGT TGATGGGCAC AAGTACTCAG GGTCTTTGAC CTGTAGAGTT
143501 GCGAGTCTCT ATTTTCTCTG TTGCAACTTT TTGCTACAAAT GCAACATCAT
143551 TCTCTGTAAT CTGTCTTTCT TGCAAGGTGG CAGATGCAAT CAGACTGAT
143601 CAAACTCACT TCCAGGCTCT TGGCAAAAT ATTGGGTGCTG CTGTATCTTT
143651 TTCTCAGGAG GGATATAATA TTACATTTAC TCTCTTTTCT GATGTTAACA
143701 TTCATTGGTG CTCAATACCT AGACCTATAC ATTATTTGCT GGTACAAAC
143751 TTCTAGTATF TATTTTCTAT TTATTATCTG AATAGTTTTT ATAAAGAGAG
143801 GCGCTCTCAT AGTTTATACA GAAATATTA AATAATCAAA ATAACTAATA
143851 GAAAAATATT GATTCCTTTC CATTTATTTA CCACTTTTCA AGATAAAATG
143901 ATTTCTCTGT ATCATCAAAA GAGCACTTAG AGTTTAAAG TATATTTCTG
143951 AATTTATAAA TTTAAATATA TTCTCAAGTT TTAAATTAAT GAAATTTATA
144001 TTCTATTTGA AATCAAAATA CTCTATTTCT TCAATTAAGA AGATTTTATA
144051 CTTTCTTTCT TGAGTCTTTT TTATATGAT TTCAATTAAT CTCTCTAGCT
144101 TTTTATATA TTATATAT ATATTAATTT AATTTATTTT ATTTTCTCT
144151 TATTTATAA TTAGAATTA TTTTCTTTT TTAAGTAAAT TTAATTTCT
144201 TTTTATGAG AAGGCAATAG TTCAAGTGA AAGATGTTT ATTCTAGTCT
144251 CAGTGGTCTT TGTCTCTAGA CTCTTCAAT AGACAGCATT AGGAATTACA
144301 TCTGTAAAAA TAAATACCT CATGTATTTT TACCAATTC ATATCAGGAG
144351 TCCAGGAATC ACTATGCTCA TTATTCAAGC TCTTCTTTAT TTTCTAAGG
144401 AAAAAATTTT AGTTTCAAG GATTTCGAT GATAGAATTA CAGTAACTG
144451 AAATTTATTA TTTTATATA CATTACACAA GTAATATATG CAGAAATGCA
144501 AATTAATTA TTTTATTTT AATTAATTA CTAAAAAT TCAATATAA

FIGURE 3, page 46 of 173

144901 CTTTCTTTTCTT GTTTCTTTTAA AGTGATGCAA AATATAAGAT TGTCTTCTTTT
144951 CCAAGATTTTC ATGTAGTTAT TCGTTTACCG CACTTTTATA TGGACATTCT
145001 CTCTCTTTTCA TCTCTGTTGT CAATATCCAG TTGGATTTGA CTCTCTTTCA
145051 ATAATTTTTC CTTGCTGTGG GTTCCCGGCA TGTAGCTTTC AAGAGTTACA
145101 GGGCTTAAAG CATTGCTGTC GTTCTGCTTT TGAAATATA TGTGGCTTGG
145151 ATCTCTTGGT CCACTCAGCA TTATACAGG CAAAACCATC CCGAGATPAA
145201 ACTGCTATTC TCAAGCTGAC TTTGCTGAG TTCAATGAAA ACTTCTAGAA
145251 CATTTTGGGA TTCTCAGGCT CATCAATGTC CCAATGACTT TCTTCAGGAC
145301 AGAGACTCAA ATATCCATGG GCGTATGCTT GGCATGCTT TCTGCTATA
145351 ATCTTCTATT TTGAGTTTCA CAGAAATATC TTCTCAGTCA GCTTTCTTTC
145401 AAAATTTTTC TATGGCTTTT TGGTTTCTTC ATCTGTTTAA TCTTCTGATC
145451 TTGATCTTGG CATTTGAGCA AATTGAGAAA CTATCTGCTG CTCTAACCAT
145501 CACCACTCTC CCTAAATCCA APTACTGCTT ACTATTGACT AGAGATATA
145551 AAAATTTTTC GTTAACAGCA TATAGAAAAT TAATATATCT AAGATAGATA
145601 ACCCAACCGA TACCTTTTCA ACTTCTGCTT TTAGGAAAAT CATATATCT
145651 TACTCTTTAA AATATCTATA GTATCTGAAA ACTACTTCAA AATTAAGATA
145701 CTATATTTTA GTTAAATCTT TCTCTATA TTGAGAAAAT AATGATTTTA
145751 AAAAATATCA GTTTCTAGGC CTGCTGCTAT GCTTCTGCTT TCTGATCTCA
145801 GCACTTTTTC ACACCTTTAA TACAGGAGG TTGGGAGGCT GAGGCTGCTG
145851 GATCTATATC TCAGGAGTTT AATATGAGCT TCTTCTGCTT GCTTCTGCTT
145901 CATCTCTACT AAAAGTACAA AATATGCTT GCTGCTGCTT AATGCTGCTT
145951 GGTCTGCTT ACTGCTGAGG CTGAGAGAGG AGAATGCTT GAGCTGCTT
146001 GGTCTGCTT GAGTCTGCTT GAGTCTGCTT GAGTCTGCTT GAGTCTGCTT
146051 AAGAGAGGGA GACTCTGCTT AAAAAAGAAA AAAAAAGAAA GCTTCTGCTT
146101 ACTCTAAGCT AGCTGCTGAG TGTATTTTCA GCAATCTTCT GCTTCTGCTT
146151 AGTCTGCTT TACTCTGCTT TACTCTGCTT GCTTCTGCTT TCTTCTGCTT
146201 CTTGGAAGGA GATGGAAGTA ATGAGATAAC CTCTGCTTAT GATGCTTCTT
146251 TCTGAGAGAA TGTGATCTCA CATTTCTGAG TCTGCTGCTT AATGAGATCT
146301 AAGAGCTGAG ATTCTGCTT TCTGCTGCTT ACACAGAGAG AATGAGATCT
146351 ACACAGCTCT TCACATCTAT CACAGCTGCTT GAGTCTGCTT TCTGCTGCTT
146401 TAATATTTGA AAGATCTATC AATGCTGCTT GCTTCTGCTT CAGAGTAAAA
146451 TAAAGCTGAG CTCTTCTGCTT AGAGGAGAAC ATTCTGCTT
146501 GGTGCTTAAA GTTCTTAAAG TCTATCTAG ATATCTTCTT CACTGCTTCT
146551 GGTGCTTCTT TTTCTTAGTA GTTCTTAAAG CCAAGCTCTT AACTGCTTCT
146601 AAGATCTTCA TCTTCTGCTT TCTTCTGCTT CATGCTGCTT ATTCTTCTT
146651 AATACTTTAT CTATGCTTAA TATGCTTGA TAAGAGATTT AATGCTGCTT
146701 GTTAAATTAT GTTCTTCTAG AATGCTTCTT GAATGAGAT AATATCTTCT
146751 AAAATATGTA GATCTTCTT AATGCTTCTT TTTTACTGCT TATTAATCTT
146801 CTCTCTAAGG GACTTTGAAA AACTATCTCT AATGCTTCTT AATGCTTCTT
146851 TCTATTAAT TATTAATCTA CTCTATCTT TAAATTTAA AATGCTTCTT
146901 TACTGCTTCT TCTATCTATA ATATATTAAT TGCTCTTCTT TAAATCTTCT
146951 ATCTCTCTCT AGATAGAGGC CACTCTCTCT TTTTCTCTAT ATTCTGCTT
147001 ATGAGGAAAG TTTCTATTTT GTCTCTCTCT TACTTCTGCA CATTCTCTCT
147051 AGATTTTCTA ATTATCTCTA TCTTCTCTCT TCTTCTGCA AATCTCTCT
147101 TCTTATTTTA TAAAGCTTGA TCTCTCTCTA AATCTCTCTA AATCTCTCT
147151 CAATTTTCTT TCTTCTCTA AATCTCTCTA AATCTCTCTA AATCTCTCT
147201 TCTTCTCTCT TCTTCTCTA AATCTCTCTA AATCTCTCTA AATCTCTCT
147251 TCTTCTCTCT TCTTCTCTA AATCTCTCTA AATCTCTCTA AATCTCTCT
147301 TCTTCTCTCT TCTTCTCTA AATCTCTCTA AATCTCTCTA AATCTCTCT
147351 TCTTCTCTCT TCTTCTCTA AATCTCTCTA AATCTCTCTA AATCTCTCT
147401 GAAAAAAGCA CAAATCTCAT GCTGCTGCTT AAAAACTACT AATTAAGCT
147451 TATTCAGTAC ACCACCTTCT AAAAACTTCT TCTTCTCTT CATTATATC
147501 CTCTTATCTT CTAGGCTGCT TCTGCTTCTT ACTGATGCTT GCTGCTGCT
147551 TGTGATCTT TTTTCTGCTT TGTCTAATTT ACTGAGAACT TCTTCTGCT
147601 TAAATATCTA CATTTCTCTA AATGCTTCTA AATGCTTCTA AATGCTTCT
147651 CAATTTTCTA AATGCTTCTA AATGCTTCTA AATGCTTCTA AATGCTTCT

FIGURE 3, page 47 of 173

148051 GTAGAGGAA ATTATTGAAG ACTAATATTT GTTTTATTTT CCAATSTTTT
148101 AAAATAAAGG AGAAATATGA ACTTTTCTCA ACCATTATCA GCTCAGCTAA
148151 AGTAATGCTT TTTTCTGGA TGGTGTGTG CATTCTATA CTCTAAAATA
148201 TCAATAGAGG AAAAAAATAT AATTATCTAG ACTTTTCTCT ACCTACTGGG
148251 TTGTCAGTAG AAAAATACAG CAGTGAAGG CTCTTTCTCA CTCTACACA
148301 GACTTTTCAA ATTTAGTATA CTCTCTTTT ACTGAATAA TCAACACTT
148351 TAAATGACAT TCCAGATGGA GAAGTATCTT TCTGTGTGT CTGTATAGT
148401 GTGCATGTGT GTATATCAAG AAATTTTATT CAGAGAAGTC TGGTATAGT
148451 TCAAGATCTT ACAATTATTT CTACTCTGGG TGGTASGAG ATCACTCTGG
148501 TGAAATAGGT GAAACCTCTT CTCTACTAAA AATACAAAAA GTTATCCATG
148551 TGTGGTCTGT TCTCTCTATT CTCTACTATA CTGGGAGGCT TGAGGCACAA
148601 GAATTCTTGG AAGCAAGAGG CTCTAGTGTG CAGTGAAGG AGATCAACT
148651 ACTCACTGGA CTCTAGAGCTG GCTACAGAG CAGAGCTCTA GCTCAAAAAA
148701 AAAAAAAGG TCAATGTGTG TTCTATCAAG ATTAATTCTC CTACACAAAT
148751 GCGAATGTGA TTCTCTTAAT GATTAATAGA TCTAGGTTAT CATATTTGGA
148801 GAACTAAACA CAGTTGATCA TATGTATACA ATAGATCAGC AGCAGTASAA
148851 ATCAGAGGAG AAAAAATGAA CTCTTTAATT TAAGCTATCA AGAGCAATTT
148901 ACCAATCTTT AACTCTCA GGT ACACCTGATCT TTGATGTCTT TCTCAAAAGT
148951 CAGAAATGCT TCAAAATCTT TCAATCTATT GATATCAACA CTAAKAATTT
149001 AATTAGTATG AACAGCAATA TTCTGATCTT AATGCTGACA TAATCTGACA
149051 AATTAGTCTG AATTAGTCTT CTCTCTCTAT TCACTTCTGG GCTGTGTGTA
149101 GGAATCTGAG AATCAAGGAA CAGTTTCTAG CTTTATTCTA ATGGAATTTT
149151 AACTATGCTC TCATATAAT GTGGAAAAAT TAAGCTCTTA GCTCTTATT
149201 TCTCATGAGT AGATGATCTT ADOCAATCTT AATACTCATG AATTCTATAAT
149251 AACAGAGCTG ACACAGCTAT AAAATCTGTA TTACAAAAAG TATCTCTCTG
149301 TTTTCTCTATA ATTCATCTAT TTAAAGCAAT TCTACTATA AAATTTCTCG
149351 TAAGAGAGAG GAGTTAGGAG AAATCACTCT TACCTACCTT GCTGAACCAAT
149401 GTCTCTTTGA TCACTTTCTA AATTCAGTTT ATAGGTAAAA ACTCACTCAA
149451 ACAAAATCTT ACACAGCTTA CAAAAAATTT AGCTATTGAC CTAGAGCAAT
149501 AATAAATGGC ATATAAAAGC TAAAAATATA ATAGGAATGG AGTCCATCAA
149551 GTTAAATCGT AACAGCTGTC CTAGAAAAAT ATATTCAAGAA CAATTCAAGAG
149601 GAAACACCCA CTCTGTCTTC TCTATGAATT TGGCATATCA AGATGCTTTC
149651 TATTATAGGT AAGGTGTATA GTCATTTAAT CTCAAAATGA ATATTTAGAG
149701 CTATACCTGT TGGGAGAGAT GTCTCTTTAA TATTTAGAGA GCTATCTGAT
149751 TGTGTCTATT TCTGGTTAAT TTAGTAGTCA GTCCCTATCA TTCATGAGT
149801 GAAATAGGCT TACTGATGAG ACTCTGTGGC CAGGAAGCAG ACAAATCTCT
149851 CCTATCTCTT ACTAACCTTG AGTAAGTGGG ACAAAGATA ATTGGAAGTG
149901 CCTGATATT TACCTAATAA GAATGCAGGG ATCTGACCAA GAAATTCAG
149951 CACATGGGAT AGTGTCTGAA ATTATATAAG CAATACACTT CCCCCTGTAG
150001 AATAAAGAGT AAACCTTTCT GTGCAAGTTT TCTCTCCCTA AATAAAGGTG
150051 CTGTTAAGAT GCAATTATCT TCAGAACATA ATCTTGACCA AATTCTACTG
150101 TATAAGGAGA GATATTGTTT CCTTCTCTTC TCTTGTCTCT TCTTGGGTTG
150151 TATAAAGAAA AGTCCAGAGA TCCAGCAGA AAGCAAGAT TCTTCAGAGA
150201 CCTATCTCTT GTAATAAGA TAGTAATCTT TCTTTAATTC ATAATCTCTA
150251 CTCTCTCTTA TCTCTCTTA TATTTCTTAA TCTAATAAT ATATCTAGAT
150301 GTTTATATAT TTCTCTCTTA AAATGGAATC TCTAATAATA ATTTAATTTT
150351 ATAATAAATA TCTCTCTTA AAATGGAATC AAATGATTA TCTAATAATA
150401 CACTATTTCT TCTCTCTTA TCTCTCTTA AAATGGAATC AAATGATTA TCTAATAATA
150451 TTTTCTCTTA TTTTCTCTTA AAATGGAATC AAATGATTA TCTAATAATA
150501 ATAGTAATAT TTCTCTCTTA GGGCTTTGTT GTACAGATTA TTTTATTAGC
150551 TAGGTATTTA GCTTAGTACG CATTAGTTAT TTTTCTGAT TCTCTCTCTC
150601 TTTCTCACTT CCACCTCTTG AAAGCTCAGG GTGTGTGTGT TCTCTCTATG
150651 TGTCAAGTA TCTCTCTAT TTAGCTCTCA CTATTAAGTG AGAATATGTA
150701 GTATTTGCTT TCTCTCTCTT GCTCAGTTT GCTAAGGATA ATAGCTCTCA
150751 GCTCTATTTA TCTCTCTCTA AAGAACATTA TCTCTCTCTT TTTTATCTCT
150801 TCTATATTAT TCTCTCTCTT ATATCTCTTA CATTCTCTCT ATCTCTCTTA

FIGURE 3. page 48 of 173

151251 AATTTTATA TATTAATAATG TGAGGCTTAA ATATATTTTC ACAGAAAAAA
151251 ATAACTAGAT TTAACATAAC CTTGCAATAT GTAGTTATTG AGTTATTGTA
151351 GGATTTTGT TFGCTTTTTC AGCAGAAAAA ATATTTTATA CATTCTGTG
151351 TTAATGATG AGAGACATCT AAATACATAT AATAATTAAA TTGCTGTGG
151401 TAAATTTGGT CAGGCTGTGA ATCCTAGTAT TTTTGGGGG CAGGCTGTG
151451 GGATTTCTG AGGTCAAGAG TTGAAAAACA GCTAGTCAA CATGCTGAAA
151501 CCCCATCTCT ACTAAAAATA CAAAAAATCA GCCAGGCAT GTCTGTGATG
151551 CTTTAAATCC TAGCTA TCA GGAAG TGAAG ACAGGAGAA TGTCTGAAT
151601 TGGGAGATGT AGGTGTGAGT GATCTAGAT CTTCTTTT TCTCTAGGC
151651 TGAACAAGA CTGAAA TCC ATCTCAATA ATAATAATAA TAATAAATAT
151701 AGTAATATAA TGATAATAA TAATGAAATA CTCTTTTCA GCTTTATAT
151751 CATGGGAGTA TAATAATAGA TACTATTAT TGAAGATGTA TGATCTGCA
151801 GAAATGAGT TGGCAATG GGAATATTA TTCTTTCT ACTTAGATT
151851 ACAATCTCTT CAGGTA TGG GAAATAGTG CTTTAAAGG ATAAAGAAAT
151901 TGAGGCTCAA AAGTTACCA GCAAAATAGC AACAGAAAAA GGATTCATT
151951 CAGATCACTT TCTCTGATA TATTGCTTT TGGCACTGTA GCAAGTTATA
152001 AACTCTGCG AGACAAGA ATADAACAC CTCTTAATG AGAAATAAG
152051 ACAGCTCTT ATTAAAGAG ATCTGAGCA GCAAGATA AAAAAGAAAA
152101 AAAAAAAGAA AGAATG TGG CAGGAGAGGT TATTCTTAA GAGATAACAC
152151 AGAACCAGAG AATTATATTA AAAATAGCTA TACCAATACT ATTTTATAGC
152201 ATAGCTGATT CTAGAGTCA TTCTGCTGCT TGAATGAGG ACAGAGTTCA
152251 CTGTGAATTC CAGCTGCAAG TCGAAGGCAG ATTTAAATG TATGATTTCT
152301 GATTAAAGTA AAGGAGATA CTCTTTTTC ATCTGAGG CAGATGATTA
152351 GAAATCTGAA CTTTTTGGG TCTCTTATT TGTGAGGTA TGAATCTCT
152401 CTATGCACTT TTTAGGGGCT AACTGGAGT GACAGAAAG AATTCTAGG
152451 ATAGTGTAG ACTAGTAT TATGGGAATG TGGCACTAGA ACTTATGGG
152501 TGAAGAACTG GAATGAGCA ATCTGCTCT TAAATTTAA TTTGACAAAA
152551 GAGGTGAA ATATCTGAG GAATAAATAT GACAGGAG AGTTTCTCTT
152601 TTTCTCTGAG CTAGCTATAT CTAGATGTT CAAATCTTA ACAGTTAAG
152651 GATGAGTGA ACCAGATGAG TTAATGAAAT ATAACTGAT TGAAGAACTG
152701 TAAATGAGT AATGAGGCT TTTAAATAG AGTTAGCT GTATTCTCT
152751 CATGCAATTA AATAGATGG TTAAGCTAG ATGCTCTTA ATTGCTAAT
152801 GATTTTAAAT TTTATCTTA AAACTTAAT ATCTGCTTA CATATTATAA
152851 ATTATCACTA GTAAATTTG CTTTAAATG TTTTAGCTG CAGTGAATA
152901 TGCTTTAGTT GAATTTTCT TGAATTAATG CTTGATAGCA TTAATCTGCA
152951 TTGTACATAG ACATAGTTT TATTTACTAG AAAGCTTGT GAGCATTTT
153001 ACTTAGAAT CCACTTTTGG AATGCTCTT TGTAGAGAA AATCAGTCTA
153051 GTGATGTTG CACAGAAAGA AAAAGCTGAT ATTTAAATTA ATGTAAGCTT
153101 AATCTTGAAT CATGCTGAG CTCTCAAAAT AGTGGGCTT TACCAGTGGT
153151 CTGCTAAIAA ATATCTAAGA AGAATCTTC TAATGGGAG GCGGAGTGT
153201 GATTTGTAGC ATTTGCAAC TTTCTGCTG TAAATTTT CAAGATAGCT
153251 CATCTCAAGC TACCAAGCTG AATCTGCTGA ATGTAGAAT GCGAAATTT
153301 GCATAGTCA AGGCTCAAT TCTCTTAAA TAATTTTCA TCTAAGATT
153351 CATAGGATA CATACCAAA AGGCTATAT AATAATMAA TCTTCTTAA
153401 TAATAAATA TAATAATTT TTAATTTT TTAATTTT TAATAATTA
153451 TTAATTTT TAATAATTT TTAATTTT TTAATTTT TTAATTTT
153501 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153551 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153601 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153651 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153701 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153751 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153801 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153851 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153901 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT
153951 TTAATTTT TTAATTTT TTAATTTT TTAATTTT TTAATTTT

FIGURE 3, page 49 of 173

154351 AAAATCTCTAT ACCATTACTT GCCAAGTTT GTAATCTTAT CTCTGATAAT
154401 AAATAGATAA TGGTTTGCAC TGGCTAGTCT TGGCTGATAA AATTACTT TT
154451 ATTTCTTTGG GAAATTAGCA AAAACTGAGG ATTCGAAAGG AATTGGTATA
154501 TTTACTTCTC TCTTTGGCCG AGAAGTTAAC TGTCTTGGAT ATTTGATTTG
154551 GTTTGTCTTG TTTTAAACAT CCAGCTAATA ATGAAAGGAA ACATGTTTTT
154601 TAATTTGGGC TTITGAATTG SGAGATTGCT GTTAATGAAT TAGAGCTTAA
154651 CTCTCTAGCT ATAAAAAGAG ACTATATAGG ATGACAGCAA AATACTTA GG
154701 AGAAACGTTT TAPACCTTC AGATGGTAAT GCGATTGCTG CACCATACAG
154751 TAAAATTTTC TTAATACTG ATGAATACAG TTTCCTCACT TATTTCTCAA
154801 TCCCCTTGAC CTGGCTTGAC TTATCTCATT AAAACTATCT TATGCTCCCG
154851 ACAGTAATAT TAGAATAATA CTCTTTCTCG TTTIAGGGTG AGATATCTAT
154901 TTTATTGTTT TGTCTTCTTT GTTCTGCTT TCTTGACTGA GTAAATAATCA
154951 ATCATTAATA AGCTTTAGGT AAATTGAGTT TTTTCATGTC CTGTGTAATT
155001 TACTTTCTTC TGAATTTTAS TTCTGTATCT TTCTTTCTGT TCTGTAAGGC
155051 AGGACCTGAC ACATTTCTTC CTGAATGACT ACCTAGCTTT CTGAGATGTA
155101 TCCCCTAATT CCGCTCTGCA TTTTCTTTT TTTCAATACA TCTGAAATAT
155151 TCTTCTACCC ATGCTCTCTG TAAAGCTGAA TATAGCTATT TATAGCTATT
155201 CAGTTCTGTC TCTCTTTCTT TCACTTTTCA GAACTCTACC AATCTCTCA
155251 GCGACCTCTC AGCTATCTTA AGATATTTG GAACTGCTAT TCTCATAGA
155301 GCGATTCTCA ATATCTCAAG TCTCTCTCT CCACTATCTG TAACTATCTA
155351 TCTTCTCTCT AGACAACTCA TCTCTCAAG ATATCTCACT GCTATTTTAT
155401 TCGATATTAAC CTCTCTCTAT ACCTATCTCT TAACTCTACA GCTATCTCT
155451 TAACTATTAAT CCAAGCTCTT CCAAGCTAT GCTCTCAAAA TATCTTTT
155501 TTTATTAATC TTTAACTCTA GCTATAATG TCTCAAAA CTCTCTCT
155551 TACATACTTA TACATCTCTT AGCTCTCTTT GCTCTCACTA TCACTCTCT
155601 ATCTACTTAA CTCTATCTCT CTATCTCTAT CCTCTCTCTA GCTCTCTCT
155651 CCGCTCAAGG CCGCTCTCTG TGAATCTCTT TCTCTCTCT GCTCTCTCT
155701 TCACTCTCTA ATCTCTCTT ATCTCTCTA ATCTCTCT GCTCTCTCT
155751 TCTCTCTCTT TACTCTCTG AGATCTCTT TCTCTCTCT TATCTCTCT
155801 CCGCTCAAGG ACATCTCTT ATCTCTCTT ATCTCTCTA GCTCTCTCT
155851 CTATATATAT CCGCTCTCTT CTCTCTCTA CCACTCTCTA ATCTCTCT
155901 GCGCTCTCTT CAGCTCTCTT CCACTCTCTA CAGCTCTCTA GCTCTCTCT
155951 GCTCTCTCTT GCTCTCTCTA TAACTCTAT TATACTCTCT TCGCTCTCTA
156001 CCACTCTCTT GCTCTCTCTT GTCTCTCTT ATCTCTCTT CTAGCTCTCT
156051 GAGGAACTCA CCACTCTCTT TCACTCTCTT TCACTCTCTT TCACTCTCT
156101 ACCTCAAGCT TAAAGCTCTT CCACTCTCTT AACTCTCTCT CCACTCTCT
156151 TCTCTCTCTT ACTCTCTCTT GATCTCTT CTAACTCTCT TCACTCTCT
156201 TCTCTCTCTT GCTCTCTCTT GCTCTCTCTT AACTCTCTT GATCTCTCT
156251 TCTCTCTCTT GCTCTCTCTT CCACTCTCTT TCTCTCTCTT AGAAGCTCT
156301 GCTCTCTCTT TCTCTCTCTA TCTCTCTCTT GCTCTCTCTT TCTCTCTCT
156351 AAATCTCTT AAGCTCTCTT TCACTCTCTT ATCTCTCTT TCTCTCTCT
156401 GGGTAGATCT CAAAAATTTT CTCTCTCTCT GCTCTCTCTT TCTCTCTCT
156451 GATGATAGTT TCTCTCTCTA TCACTCTCTT CTCTCTCTT ATTCTCTCT
156501 ATCTCTCTT TCTCTCTCTT GCTCTCTCTT GCTCTCTCTT TCTCTCTCT
156551 AAGCTCTCTT CCACTCTCTT ATCTCTCTT GCTCTCTCTT TCTCTCTCT
156601 TACTCTCTT ATCTCTCTT GCTCTCTCTT TAACTCTCTT ATCTCTCTT
156651 ATCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
156701 GCTCTCTCTT ATCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
156751 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
156801 ATCTCTCTT TCTCTCTCTT GCTCTCTCTT GCTCTCTCTT GCTCTCTCT
156851 TCTCTCTCTT TACCAGTCTT ACCCTCTCTT GCTCTCTCTT GCTCTCTCT
156901 ACTATAGTTA GAAGTCTCTT AGCTCTCTT CCACTCTCTT GCTCTCTCT
156951 CTCTCTCTT CCACTCTCTT ACCTCTCTT TCTCTCTCTT ATCTCTCTT
157001 TAACTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157051 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157101 ATCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT

157151 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157201 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157251 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157301 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157351 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157401 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157451 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157501 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157551 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157601 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157651 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157701 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157751 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157801 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157851 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157901 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
157951 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT
158001 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT ATCTCTCTT

FIGURE 3, page 50 of 173

160751 ATGATATATAC GAGGCGTTCG A T T T T C T T T GGGAAATATC ATGCTACTCT
160751 TCTAGTAAAA ATTGCTCTCT TTTCTCTTT TGTCTTCAA AGTGAATCAG
160751 CACAAAATAT TGAGACTGCA ATGTTAAATA CTGTAAGCCG TTAAAAATTG
160801 AGAACATAAA TTAATCAGAT ATTGCCATTC TTTAATTAGA AAGATGCCAT
160851 ATTCTTTACT GATTTAGTTT CTCTAGCAAA TTTAAATATG GCGTGTCTTC
160901 CATTTTATATA AAACAAAAC TTTTTCCTTT AAATTTGTAA ATTCCAAAGA
160951 CATTACAAAC TTTAAATACA TTTTTAGAAA GGTTCCTCAA AACGACATTA
161001 ATTCAAATTC ABAAGATGCT TT TGAAGGCC CAAGTAAAC AGAGAAATGT
161051 GCGGTGTAGA AATAAATTA GCGATAATACA TTAATTAAAC AAGAGCTGAA
161101 CCGTGGCTTG TTTTTCAGTC TGAAGATAG AATAATAAAA ACAGACCTCT
161151 TATTTCTTAT TCAATGAT CT TAGGTGAA TGAATGATA AGAGATAAGA
161201 TAATGATATA AAGGAAAA TT TGAATGTGAA ACTGATAACA AAAAAACAAG
161251 ATGTCGATAC TTTGATCTTG TTATTCTGTA TTTAACTATA AATGATCTCT
161301 ATATTTCAAA CAACTGCTCA GATGCTTCA GTAAATACA CATGAGGAT
161351 GCATTAGTAT AGAATAACAG TCTTAACTTT AGGATTTCT AAGGCTTTAA
161401 TAATCTCTCT TCGCAAAAGC ATAAATATCA AATAATTTAA ATTAAACAA
161451 TATTTCTTAA TCAATGAT AT TCACTTAA CTCTATTAAT AATAACACAC
161501 AAACATATAA GCGTACTTAT GCGAAGCTGA AATAATTAGA ATATTAAAA
161551 TGTTCGAACAG TCTTCTGTA TGAATGAAAC TATGATACA TGATAGAAC
161601 CTTTTCTGCT CTAAGTATAG AAGGAGATTT GCGCTCTTCA GAAAGTATCT
161651 TCTATCAATC TTAATTAGTG GGTCTCTTC TATTTCTTA CATTTGAGGG
161701 ACTTATAATC AATTTCTCA AAAAGACTCA CTCTCTTCT GAAATCTTAC
161751 ATTCCAGGAT AATGCTCT TCTTCTCACT TTGACAGCTG TGAAGCTTTA
161801 TTTCAAATTT TGCTCAGCA TTAAGGTACA TTTCTGAAAG TCTATGTTGG
161851 AATATAAATC TCTTGAATTC AAATATCTTG CAAAGGCTTT GGTGACAAAT
161901 GTGTATATTT GAAATCTCT GGTCAATTT AGGTATAAAT ATCTAATCAT
161951 GATCTTTAAT CAACTGAGAG GCAAGAGACT TTTCTCAATC TACCTTTGGA
162001 TAAATATCTT AATTAAGGCA AATAATTTCT CCAATCTTCA AAGATGCTCA
162051 CTACTTCTTA GGAATAATG AGAATTTTCA AGAAGTCTCT AAGAGTCTCT
162101 GCGCTGCTGAT CAAAGGAAA TTAGCTCAAC TGATTCAGAG ATATGATCTC
162151 AATCTCTGTA AATATAAGGG TTAAGGAACT TCTTACTCT CATGGACTCT
162201 AAAGCAAAAT CCAACAGAA AAAGAGCCCA GATATCTCT TTGAGTTTGA
162251 TATGTTCTCT AATGTTGT TA GTGAGGCAAT AATTTCTAGG CTCTCTCTCT
162301 TCTCAGATTA TTTGAGATT ATTGCTAGAC TTTATACAAG GCGCTTTCTG
162351 CCAATATCTG TGAATGAGC ATGAGGAGAT TTTTATTAGA CATAGAATAT
162401 TTTTATCTCT GATGAAATC TTTGATCAGC TATCAGTTCT TCTTTTCTG
162451 GGATTTCTGAG CTCTATCTAG TTTAGGGATA TCACTATTC TTAGCAATGT
162501 TATCAATGCT TCAAGCTCAA GTCAACTAAA TGCTATGATA AGAGTAGCTA
162551 TCACTGATTC AGCTTGTAGA ACATGCTATA TCTCTCTCTC GGAATTTTAC
162601 ATATATAGTT TCTTACTCTC AGAAGATAAA TTTCTTTAAG AAGCTGCTAC
162651 ATTAGAAAA TCTCTAGGCA TCAAGTATC TAGAATAGC CATCTCTCAA
162701 TATTTCTATC ATAGGACAC AGACACATAC AGACAGCTCT ATGTATGTGT
162751 ACATACATCT ACACATATAT TAATTAAATG ATTACAGTCT TTTATATTTG
162801 TTTAAGACTT GCATTTTAC AATGATCTTT TTAATTAGAC TGTTTTAAAT
162851 TATTTCTAAA ATTAATTTAT AATATCTAAA TATGAAAAAA TTAGCTGAAA
162901 AATTTAGCTT ATTAATTTAT AATGATTA TTAATTTTAT TATTAATTTA
162951 ATATATTTAT ATTAATTTAT AATGATTA TTAATTTTAT TATTAATTTA
163001 CAATTAAGAT TTAATTTTAT TATTTGATCT GATTTTAAAT TCATAAGCTT
163051 GCGTTGAGAA GATTTTCTG AATGATCTAT AATGATTAAT CATTTGTAAT
163101 GTATGACTCA GTAAATTTAT CTAAATGTA TAATATCTCT GCGAAGAGAA
163151 ACTACAGAGG TGTGATATA AGCATTTATC ATTAATGAGC TGAATTTGAA
163201 ACTACATATG GTCAATGATA GTACAATAGA TAAACATGTT GTAGTATACT
163251 GTGGAATATG ATATGCAAT AAGAAATGAA AACTACAAAC TCCATGCGAT
163301 GATATTGATG GTTCTCTCT ATTAATTTAT GATTAATAAT AATGATTAAT
163351 AAAGATATC TTAAGGAGCT GATTTTGAAT GAGGTATGAA GATTTTCTCT

FIGURE 3, page 52 of 173

163801 TACACAAAGTT AAGGCATTAT TGATATTAAAT CAGCACAAAA TAATAAACTA
163851 ATTTATPAAT ATTITAACTA ATTTAAACTA ATTCCTTAAA AAATCATTTC
163901 TACATTFAAG CTAAGTTAAT AAATTTTTTT CGTAAATCAT ATCCTTTTAA
163951 ACTCATATAT ATGAGTAATA TTTTCTAGGAG AAGCATTAAG CATCTAAAAA
164001 AAGAAATGTA CTATGATCTT ATCAGAAAT CGACCTTTAT GTGGTAATAC
164051 AGAATAAGAA AAGCTTTTTT GTGAATTAAC ACTCGGGGAC TCTATTCTTA
164101 TTTCAAAATTT TAAAAACATA ACTTAGTAA CTATTGAGAC TCTCCAAAGT
164151 ACTTCTGTTT CACCATTTTA GTTTTGAATT TCTTTAAAAA TTGCTTAAA
164201 AATTCAAGAG CATCTCAACT CTGACAGTTG TGCATCTCCT AGAATCTGAA
164251 ATAGAAATTT AAACTGCTTT GTTTCTTAGG GAAAGTTCAA TTGGTTCTTT
164301 CTATTTTCTC CTTTTTGAAG TACTCTTTTA ATGCAACTGT CTCAATCTAA
164351 GTAGAGGAAT TGGAAATGTT GTTATTTCTG TTGATTTCTT CCGTAACTTC
164401 TGAATCTCAA ATCTCAAAAA GTTTATAAAT ATTTCAAGAA CAAATAAGAA
164451 CATGAACATAT AACTGTTTTA CCATAACCTT GCTATCTCTT TAAAGCAAC
164501 AGAAATTTTG AGGTGCTCTC AATCAATTT ACCAAGAGAT TACTCTCAAA
164551 CTTTCATTTT TATCTTTAAA ACTTTAACTA ACTTTTTTAT ATACTAAAT
164601 GCTTTGCTTT AAGTGAAGCA GAGCTTGA GGTAAATCTA CTTGCTGCTA
164651 TGGAGGTAAT CTTTTTAGCA GAATCTAT TACAATCTAT TCAAGCAAC
164701 ACTGCTCTCT CTTTTTAGCA TTTCAATTA TTTAAATTTT GAAAGGAGG
164751 TCTTTAGGAA AGGAGCTGAG ATTTAATACT AGGAAAGTTT AGTAATCTAT
164801 TCTTATCAAA CCACTCTCTG CCAGAGTAGC ATATTTCTAA TTTTAAATG
164851 CTATTACCTA TGTATTTAAAT ATAGTAATTT AATCTCAAGC GTAAAGCAAC
164901 ATATAACTTC CTGAATCTT AAATTAATTT TATACACTAT TAATTTCTAT
164951 ATTTTGCATG CCACTCTCAT GATTTTCTGC ATAAGAAAT TTGCTTATTT
165001 TTTGAATTTT AGTAAAAAAT TCACTCTTA TAAAAAGTA TTTTATATG
165051 TAAATTAAGG AAAATAGCA ATAGCTCACT ACTAGCTTA AGTAATCTC
165101 CCACTCTCAT CCACTCTCTG GTTTATAATA ATCTCTATTT TTTAAAGAT
165151 AATAAGATAT CAGTAAACCA TATGCTTACA TTTGAATGCT TTTGAATTA
165201 ATATCAGTGG TAATATATTT CATCTCTCTT TGTACCTGCA TATTTTAACT
165251 TCAAAATGACT CCACTCTGTA TTAATCTGTA TTGATCTCTG TATCAATAGT
165301 GTATTCATTT TTATCTCTAA GTGAATCTAC TTTCTATGGA TACACTACAA
165351 TTTATCTCAAT ATCTCTCTAA ATACATTTAT TGTCTCTAGT TTTCTTTTCT
165401 CTGTTCTCAAA CAATCTCTTA GCTCTTAAT TTACTAAGTA ATTCAGAAAT
165451 ATTTTCTCAA GTAAATGTAAT CAATCTATTT TCTTCAGGAG TCCATGCTCT
165501 TCTCTTAAAT CCACATATTA TCAATGCTTG ATGCTGTTTG GCTCTCTTAA
165551 TTTGGATCTA CTTAATGAAAT ATAAATGCT ACACATTTTG AGCTCTCTAT
165601 TGCATTTTCA TCTCTAATAA TTTCTCTGAT CATCTCTTAG TATTTTAGTG
165651 TATCATATAT AATATATCAT TTCTTTGTTT TGTTTTGTG TTTCTATCTA
165701 TCAGTAGAAG CAGAACATAA TATCTCTGTT TCTATAAAAT ATCTCTCTCT
165751 TTTCTCTATTT TTATTAAGCT GTTTATTTGA GTCTTAATTA TTTGTTAGTT
165801 ATTTGCTATA AATACCTTTT TCAATTTGTT AGTTGCTCAT TATAAATTTT
165851 TTGAGTTGCT CTTTGTATGAA TAAAGGCTGT GTATTATAAG AATCTATCTG
165901 ATCAATATCT TCTTTCTATG TTAATGCTTT TGAAGTCTTC ATTAATTAAT
165951 CTTTCTCTAT TGAAGCTGCA TAAAGATATT TTTAAATTTA TCTCTCTAAA
166001 CTTTCAAGCT CTGCTTTTCA TGTCTGATCT TTAATCTAAG TAGAATCTGAT
166051 TTTTCAATCT CTTTCTAAGT ATATATATAT GTTTCTCTCT GTAAATGCT
166101 CTCTCTCTCT ATATATATAT TCTCTCTCT TCTCTCTCT TATAATCT
166151 TCTCTCTCT ATATATATAT TCTCTCTCT TCTCTCTCT TATAATCT
166201 TACTCTCTTA TCTCTCTCT ATATATATAT TCTCTCTCT TATAATCT
166251 ACATCAATAT TGATATCTCT TGAATAGATC CTTAAATTTT ATTCTTTTCT
166301 AAAATCAGTG CTCAAGTCTAT TCAATAGGCT TTTCTATTTCT ATAAAAACT
166351 AAGAATAAGC TTTTAAATTT CACAAAGAAC ACTTGTAGG GTTTTATTTG
166401 ACTTACATG CTCTGCTCTT CAATTTAGGA AGAAGTAGCA TAATCAAGAT
166451 ATTCATTTT TCTATTAGG AATGCTGATA TTTCTGCTAT TACTAGATC
166501 TTTTAAATTT CTTTCTCTA AAATTTAAAT TTTTCTCTA TAAAACTT
166551 AATCTCTCT TATTAATTTA TACTTAATTA TTTAAATTT TTTTACTAT

FIGURE 3, page 53 of 173

167951 CATTAAAGGAA TTCTTTTCAT TTTTAAATTT GATAATTT TTTGTAAGAA
167952 AATATAAGTA GATTTTAAAT TGTAAATGAT TTTAGCTATA TTGAAGATTA
167953 TCACAAGGTT TTCTTGCTTT AATTTGTTTT GCTGCAGTAA CCAAAAATCC
167954 AATGTCCTGT TGGCTTCTAA CAAAAACACT CATTTATTCC TCATGTIACA
167955 GCATGCTTGT ATTTTAAATA TATATGATC GAGTGTGAAA TTCTTTTCTT
167956 TTTTGGGSSC CATATGGAAT GAGCAAGGCC TAATGGAAT ATTGTATTCC
167957 CATGSCAGAA AGCAAAAATG CAAGGAGAGAA AACCAAAATCA TGCAATGGGG
167958 CATGCTGTTT TCATTTCTTT CACATTTCTAT CAGCCAAAGT AAATCAGTA
167959 GGCAAATCCC AGACCTCTCG ATTAAGAAAC ATGACAGGGT AGCGAAAGAA
167960 TAAATTACCT TGACTAGATA ATACAATCTG ATATCTGGTG GATTTTACTA
167961 ATTGATTTCT TAAATGCAAA ATAACATTCT TGGGATTAAC CTGACTGATA
167962 ATGTCTTTCT GTCTTTTCTA TACATTTCTA GATATGATTT GCTATATTTT
167963 ACATAAAACC ATTTGCTATA TTTTATATAA AACCATATAT CCAATGATGA
167964 TACTGATCTC TATTTTTPCT TTCTACTACT GCTCTTCTCT CTTTCTGCA
167965 TCAGTACAAAT TTAGTCTAG AAAAAATAAA TATTTATATA ATCTTTTGT
167966 ASAACTACTT CATAGAATTT GCAAAATCTG CAAATATCAG CTATTTTAAA
167967 GTTTGCTAGA ATTTTAAACA TTCTTCTG CATCTGGAAC TATATAAAG
167968 TATTGATACA AACTTTAAT TATTATGCT TTTCTCTCCA TTTATCTATA
167969 AATCAATTTA GATAAGCTAC ATTTTACTAG GAATTAGTCC ATGCACTATA
167970 AATTGCACTT TTAATCTCAA AATGTTGCTT TTAATGCTTT GTTATTGAA
167971 CTATCACTCT AGTAAATTTG AGCTGTTTTT CTCTTTAAT TTTGTTTATT
167972 GGTGCTTCTT TTTATCTCTG AAATACTAGA ATTTGCTAT TTTATTCTCT
167973 TATTGCTAGA AATTTTAAAG CTATCTTTTA AATATCATAT TTTAATATTC
167974 TGTGTAATAA TTCATCATAT GCTGCTGTAAG GAGAAATTTAA GTTAATAAAA
167975 ATAAAAAATC TAGAACAATG CTGAGCATAA AGTAATGCTT ATGTTGCTGT
167976 GAGCAATAAT TATTATTTCT ATTTTCTCTG CTCTCTCATTT CATTAAACTT
167977 GTTATTTATC TATACATCTC TTAAGTTTGT TGGCAGGTTT ATTCATCTTG
167978 TTTAAATAAA TAAAAATATT TAGGTTTATT ACACTGCTC TAAATACTAC
167979 TTTAGCTGTA TCTACAGGG TTTTAACTAT TTTGTTTATT GGTGCTTCTC
167980 AAGTATTTTT AAGTTTCTAT TATGTTTCT TTAGGCTATG AGTTACATTT
167981 ACAAATGCTT TCTTAAATTT TCTAAGTATT TGATCATCTT CAAGTTGTTT
167982 GTTACTAAT GATTTGTTAA AGAATCATCT TGATCAGAAA ATATGCTGTA
167983 CATAAAGCTA ATCTCTTGAA ATTTGCTAAA AGTACTTTTA TGGCTATTAT
167984 TTAGCAGCTT TTTGTAATAA TTTGATGTA ATACTGGCAA TGTTTTGTTAT
167985 GTTCTATTAA ATCAAGCTGT TATTTTGTG TGTGAAATGT TTTGCTTAAA
167986 TATTTTGTCT TGCTTGAAGG ATCAGTACTG TGTAGGAAAA TCTGCTGAAA
167987 CGATAATGAA TTGATCAATT TTTTCTGCT GGTCTGTGCA ATCTTTGCTT
167988 TATGTTTATG GAAGTATATG TTAGTTACAC GTCATAGTT ACATGTAATT
167989 TTTTCTGTTAT ACTTCAGTAA ATTTCTGCTT TATGTTTATT GTGCTATCTC
167990 ATTACTATAT GTATGTTTAT AGTTGTTTAA ACTGAATTAA ATTTTAAATCA
167991 TATATTTTGA ACAAATTAAT TCCAGTTCT CTAGTATCTT TAGATATTGT
167992 TTTAGGCTCT AAGCTATAT TATTTGTAAT AATACAGCTA TATCAGTTT
167993 CTTTGTATTC AATTTACTTG GTCTTCTTT TTTTATTAGA GCATATTTAT
167994 TTCTTTTTTT TCTCTTTTGT AAAATTTTAA TAGATTTAGG AGCTACAGTT
167995 GTGATGCTCA TTAGGTTATG TTAATAGAT ATATGCTA GTGCTGAGT
167996 TTTCTTTTCT AATGCTTAA CAAAGCAAAAT AATAATCT TTAATTAATA
167997 GATAATGCT ATTTTATCT TATGTTTAA TATATCTT TATTTTCTCT
167998 ATTTTAAAT GTTCTTATG TAAATTTAA TATATCTT TATTTTCTCT
167999 TTACTCTCA CAAATAAGAA CATGCAAGCTT TTAGCTTTCT GTTTCTGAAAT
168000 CATTTCAATG AGAATATGCT GCTGAGTTG TATGCTCTT GCTGCAAAAA
168001 AAAAAAATAA ACATGATTTT ATTTTCTTAA TGGCTGAAAT GTAATCCATG
168002 GTATATATAG TCCATTTTTT TCATCCAAAT ATCCATTTCT GGACACTIAG
168003 GTTGTATTCA TGATTTTGGT ATTTGGAATA GTACTGCAAT AAACATAITA
168004 GTCTAGGTGT CTCTTTGATA AAATAATTTT TTTGTTTTTG GATAGATATC
168005 CATTAGATAT GATGCTTTCT TTTTCTGTTT TAAGAATAT TTTCTATCTG
168006 TTTTATATAG ATTAATTAAT TTACTTTTCT ATCAATAAT TATAAATGTT

FIGURE 3, page 54 of 173

120101 TTTTAAATTT AGGGTTTTTT TTGGTCTTAT TTGATTTTTT TTTACATTAA
120151 TATTTAGAAA AACTAATCAT TACAGTTTAT CTAGGAAAT GTAGCCTATA
120201 TAGTTTATTT GACAAAGTAT GAATCTTAT ACTGTCTCAC GTGCTTCTTT
120251 AACAATAAAA GGGCAATGGA AATATAATTA CTGCGCAATT TATATCTAT
120301 TATTTTCGAG TAATTTAAAT CTATATTTTA CTCTTGAATT GTTTATACAG
120351 TCAATATTTT TCTCTTTCTT TTTTTTTTTT TTTTTTGACA GAGTTTGGCTT
120401 TTGTTTGGCA GCTTGGAGTG GAGTGGTATG ATCTCAGCCT ACTGCAAGCT
120451 CACCTCCCGG GCTTAAGCGA CTCTCTTGGC TCAGATCTGG SAGTATCTAA
120501 GACTACAGGC ATGCCTCACC ACATCCASTT AATTTTGTAT TTTTATGTA
120551 AGGTGGGGTT TGGCTTTGTT GGGGAGGCTG CTCTCAAAAC TCCTGACCTG
120601 AGGTGATCTG CTGCTCTGG GCTTCCAAAG TGTCTCAATT ACAGGCAAGA
120651 GCTACCATGC CTGACCAACT GGAATCTTTT TCTAATAATC CTTTCTTSCA
120701 TTTGCTATTC AAACATCTTT TTGGGAGTCA ATCTTCTTCT TTCTTTGTTT
120751 TGTCTTGAAG GAGTTTCTG TCTTCTCTGG CAGGTTGGAG TACAATGGGG
120801 CAATCTCTTG CTCACTAATA CTTCTACCTC CTGGTTTCAA GTGATTTCTC
120851 TGCTTCAAGC TCTGAGTAT CTGGGATTAAC AGGCAAGCTC CAGCAAGCTT
120901 GGTCTAATGTT TTTATTTTAA GTAGAGAGAG GGTCTCACTA TGTCTGGCAG
120951 GCTGCTCTTG AACTCTGAC CTCAAGTTAT CCGCTGGGCT CCGCTCTCCA
121001 AAGTGGCTGG ATTACAGGTC GAGGCTAGGG CTCTGGGCTT TCTTTCTTAA
121051 GCACATATTT TAGACATTA CTCAAGATTA TTGATTTTGG GAGTGAAGTC
121101 ATTCTTTGGG TGGGGGGTGG TCCATGCAAA TACAAGATGT TTAGCAGCAT
121151 TCCTGAGCTC TACTCACTAG ATCTAGTAA CTCTAGTTAT TATGATCAGA
121201 AATGTTCTAG ATATTCTGAA ATATTCTGAT ATTCTCTGAA TGAGGGGTGG
121251 AAATATGGGT AAAAAAATT ACTCTCATTT GGGAACTCAT GTTTTAAAGG
121301 TGCTCTCTGT ATTAAGCTCT GTCTTCTTCT TTGAGAGGCA ATAGCAAAAT
121351 AGAAADTTTT CTGAAGAGTT GTACAGCTGC TATATTTATA ATTCTATGTT
121401 GAGAGTCTGT TCTTTTCAAG AATTTGAAGA TTTCTTCAAC TGATTTTGGG
121451 CTCTCTCTGT TCTTTTGAAG ATACTATTAT TCTTTTGAAG CTAAATATGT
121501 TTATTTAATC TTCTTTTGA GTCTGAGT TTTTCTGCA TGATCTAAG
121551 TTACATCACT TTATTTAAGA ATGTAAGTCA GTCTACATTT TATTTGCTCT
121601 ACATTGGACT CATTTTGAAT TTGAGTTTA AACAGTCACT TCTTTCAATG
121651 CTTTTAGAAA ATCTTAAAT ATCTTCAAA ATCTAAAAA ATCTAAATAA
121701 TCCCTTTAAT TATTTCTGCT TTATCTTCT CTATGACCTT TACTTGATA
121751 TCCACTGAA CATATACTT TCACTCTAT CCTCTATAAT TCTTAAAGCT
121801 TTTGAGATTT TAACTTTTC TGACCATCAA GGCTGGCTTT TCGTTACATT
121851 TCTTATATCT TAACTCTAAT TTTTAAAAAT ACCTTTAGCT GCATTATCTG
121901 CTATTGAACA CATCTATFAA GTTTTAAAT TCAAGTATTA CATTTCTAAT
121951 TTTGATAAGA CTGTTCTTTT CCAATTTCT CAGCATTTT AAAGTTTCTA
122001 AATCTTTGTA TGTACTTAGG ATGGTTTTTA CATTTGTAAG GAAATATAAT
122051 ATAGTTCTCT CATAGTTTCT GACAGGTCAT CCAATATCTT AAAATATTTG
122101 AAATGTGAAA GTTCTGATCC TTTTCTTCT ACTGCTTCTT ATTCATGATA
122151 CTTTATCTTT GTGTGTGTTT TGTGAGTGIG TGTCTATAGT CAATATAACT
122201 TTATCTAGGA GAACATTATG AGCTCTTCTT GGAAGATTTA TTTTCTTTTC
122251 GAGGACAA TGGTCTGCTT ATACCTTAAG CTCTAGGGAA AGCTAGTTGA
122301 AAGCTTAT TACTTTTCTT CTGATTTCT CATTTTACAG ATGGCTCAAG
122351 TAACTTAA TAACTTAA TCTACATCA TTAATGTTT GTGATTTTAA
122401 GTTCTTAA TAACTTAA TCTTCTTAA TCTGTTAA TAACTTAA
122451 AAAAAATTT A TGTGTTT TTTTCTTAA TAACTTAA TAACTTAA
122501 TTTTCTAA CTCTAAGCTT AAGTTTAA TTTTCTTAA TTTTCTTAA
122551 CTCTAGTTT TATGTTCTCT TATCTAGACA GTGAGCAAT GTTCAATTT
122601 AAGCTCACA TAAACATGGA TTGGTAGATG AACTGAGGCT AGCTGTTCAAG
122651 TTCAGATAAT AGTTACCTTC CTAGATTTCT CTTTCTCTT ATTTTGGCTT
122701 CTTGGTATTT CTCTACTTT CTGACATCT CTGCAATAAA ATTTAAAAATA
122751 TATATAAAG ATTCAATAAG AGCTTTTACT TATTTTGAAG CAGGAACATT
122801 AATATAAG TTTTCTGAT ATCTCTTAA AATGGAAT CAATTTTATA
122851 TATTTTAA AACTAGTTA TATAAATAA TTAAGGCTA ACAATGTTAT

FIGURE 3, page 55 of 173

172251 CAGAAAGAAAT AGGAGTTGGA AAA JTTCTGA GATACATATT AGTTTSGAGTG
172301 TTTGAGGAAA GAAATATAGC AGT JTAACATA ATTATAGAAG ATGAAGAAGAT
172351 GAGTAAGAA ATATATGCTC AGA JSTAAAG GAGAGAGAGA AATAAAGTAT
172401 ATAGJGAAAT GTJAGGGATT TGGATATTTT AATAAGTTGA ATGTGGAAAG
172451 ACTAGAGTAT GTTATACATG GGAJTAGCAT GATCTGATTT ACACTTJTBG
172501 GAAATJXAA TC TAGJTGAGCT ATGAGAGAAATG BAT JGAGTCC GGGCATJBTG
172551 GJTGGRJNT GTAAATJTAG GACTJCA JGA BACTGAGGCA GUAGGATJCA
172601 TCGAATCCAG JAGJTTTGAGA ATA JCCJAGG CAAAGTAGTG ACACJCTAIC
172651 TTTATJAAAA ATAAGAAAAA TTA JCTJGGC ATT JTJGTJT ACACJCTATAG
172701 TCCJAGCTAC JGA JGAGGCT GATJTTJGAA JATJCTJT JA GCCJJBAGG
172751 TCGAGJCTTC AGT JGRCJAT GATJGTJCA JTGJAGTCCA GCTJJBSTJA
172801 TCGAJTGAA JA JCATJACTCC AAAAAA AAAA AAAA AAAA
172851 AGAAJAGAGCT AGAAGJATATA GTT JTGAGGA AAGAGJGAA TCGAJAAAGJT
172901 TTTJAGAGAA AATATJGAAA TAA JAAATGA TGGJATJCAA CAAGJAAAGJG
172951 AGAGJACATG JCAJTBATA AAJATJAAAA TAAAAJAAAA GATAJTTTJT
173001 AATJAGAGAA JGAAJTA AAAA GGGJAAJBT JGGAJGAGCA GTJGAAATJG
173051 TCCAGAGAA JA GTJGGCAGAGA TGTJAGAGG JTGTJBTJGA JAGJATJCAT
173101 AAATJGATATA ATJGTJATCAA JAGJTTA JGA AATJGAGAA AAAAJAAGJTA
173151 AAGGATJGATA AAATJTGATA AGJTBCTTA AAGJAGJBTJT TTTTAAJGGA
173201 GGAAGGJGATA JAGJAGJGAA JGAGJGAGT TGGJAGAAATA AAAJAGCTJAT
173251 TGTJGJAGCA JSTJGJAAAA GCAJATGAGG JNNNNNNNN NNNNNNNNN
173301 NNNNNNNNN NNNNNNNNN NNNNNNNNN JCCJTAGGJT TATTTTGAAG
173351 ATAGJAGGGG AACAATAJTG TCAJGJAGGA TCAAJTTTJT ACTAGAGJTA
173401 TGGAGJGAA JAAAAJGATA GATJAGJTTG AAGJATAGAG GAGAJGJTJT
173451 TTTGATJGAG TJJAGAJTCT JAAAAJGAT JTGAAATJGT TTAGGCAJGGA
173501 AGJTJTGJGG AGGGGGGGGG GGGGJGATTT ATTAGJGATJ JTAGGAGJTA
173551 TTTGJGATAT TTTGAGAGAT ATAATTAATA AGATJTTA JA JAAJGCAAJA
173601 TGGJTGAGCT TTTAGJGJTG TTTGAAJGGA ACAGAGJT JT JAGGJATJAT
173651 GACATJAGTG GTGAAJGATA GGGAJATATG AAGJGATJT JAAAGJAGJG
173701 ACAAJTGJGG TCCJATJTTG GTTTAAJTTT AGJTGJCTJT JAGAGCAJAA
173751 GGTAAJGAG GATCTAAACT CCTAAAJGCA TTTJAGGCAA JAAJTTTJAT
173801 GAAAJGAGJT JCTGAGJTG GTAAATJTTG TTAGJCTCTT AATJGAGAJT
173851 AAAAJTAAGAJ ATAJAATJAT JAAAJGAGAA JAAAGJTTJT CTGTATACJG
173901 TTTGAAJGCT ATAJGJGTTA TATGJGAGG ATGCTJGJGA AATJACTAGT
173951 TTTGAGAGT TTTGAGAGT TTTGAGAGT TTTGAGAGT JAAATTTGAT
174001 GAGA JTAGG AAGAJTAAGG AGGCTAGJTA GAGJTGJGGA GGAJAAAAATA
174051 TGGAAAGAG GAGAGATJAG TCCJGAGATA GTTTAAJTTGA ATTTAAJTAG
174101 ACTAAAGAAA ATTAATGAGG GCATJGAGAT GATGAGGAA AATAJCTJAT
174151 TATTAAGATC TTTGAGAJTT AGAJGAGAG AGTJATCAA ATTTTCTJAG
174201 TAACAACCA AGAJGAGJT GCTTATACAA GATAGGAGJT TAGGATAGT
174251 CTCTCTTTT CTAGJTTGCA ACATTTTTTA TTAGJATTTA GAAAJTTTTT
174301 CTATCATGAG TTTTJTAGAG AGGTATJAGA JAAAGAJCTC CATTTAGCAA
174351 ATGACAAAT JAGJTTTTTC TGGTAATTTG ACATTTTTTG TGCCAJACAT
174401 AACTTTTJAT JAAAJAGAT JAAAJAGAG TTTGAGJCT ATATTJAAAA
174451 TTTGJGJT TTAGJGCTA TTTGAGJTTT JAAAJATJA ATTAGAJAG
174501 ATJGATJCT ATTTJTAGA CAATJAAAA TCJTJATJG TTAGJTTJGA
174551 TTTATJGAG ATAJATATA TTTGAGJGAG JAGJTTTJT TTTTJTAJA
174601 TTTAGAJG TTTAGAJGAG AAGJGAGT JAAAJTJAT TTAGJATJA
174651 TTTGAGJGATA GAAAJTTTTT TTTGAGJTTT TTTAAAJGAT CTJGJTTT
174701 AGAGAJTTT TAAAJAGAAA TTAGAJATGA AGJTGAGAJT ACATATCAA
174751 ATTTGAGCA JAAAJGAGAG AATJTTTTT GATJTTTCAT AATJGCTTTA
174801 TAGGAAATA AJATJACTTT CAAGJTTAAT AATAAJGAT TAJAAAJTGA
174851 GTTGAJGATG ACTAGJTAAG JAAAJAGTAG AGAJAGAGCA AGAGTGATAT
174901 TCAAJAATAT TAAAJATCTC ACATJGAGC TAJGATAGC TGGGGCCTGA
174951 TTTAGAJG TTTAGAJGAT ATAJATJG TATJTTTTT JTJAGJGJT
175001 TTTAGAJGAT ATAJATJG TTTAGAJG TTTAGAJG TTTAGAJG

FIGURE 3, page 56 of 173

176401 GTTCTTTTACC ATTCAATSTC ATCTTCTGTT AAATLGGGCT TGTGAGTTT
176451 AGAGAGAAAG AATAAAGAT ATCTAGCATA GCACCTGCTG TATGACASTT
176501 ATGCAATAAA TGTAACTGT TGTACTGCT TTGACAAATG GAAAGAAAT
176551 GTTAAGACAA TGTTCAGCT GGAGTTTAT CGAGCAITAG GTTITAGGAT
176601 GTCTAAGAAT CCTCTAAAAT TAAAAATGAA AGAGCTTATA TTTGCACATA
176651 TGGATTCTC TGGAGAAAGG STCAATAACA TTTGTAAAGT TTTTAAAGG
176701 TGTCTTGAA TTAAGAGAT TGGAAAGAAA AAGTCAAGAC AAGTTGGCA
176751 AAAGAGGAG GGAATGACA TGGAAAGAGA AAGAAATGAA GATTAGGGG
176801 AAAGATGGGA ACTAAACABA GGAACCAATG TGGAAATTT GCAAGAAAT
176851 CAGACTATAG CATTGGCATG CTCCTGGAAA GAAAGTTAG TTGCTAAGAA
176901 TGAGTASAG AGTTCAGCT AAAATAGTG AATCTGACA GAAATATTT
176951 CAGATTGTC ATGCTTCTG CATAAGGCA GPGATCTTA ACAAATCTCT
177001 GGAAGCTAT TATATTITAA ATCTCTCTG TTTCACTTT CTTGATACT
177051 GAAACAAAT TACATAGCT AATTCTATG AATGATCTT TTACATCTAT
177101 ATTTCTATCT CATTCTGAGA CATCAAGCTC ATTTCTATC TGTAAATTA
177151 TATATTCTG TATGCTACT TATTTCTAAT ACTAATATTA GGGTTTCTG
177201 AAGCTTATCT AGAATCTTT TCTCTACACA GGTGAGATG TTAGATTTG
177251 ATTTCAATTT CTATTCACTC TTGACAGCTG ATCAATTTAT TATCTTGAAG
177301 ATTTCTACAG TGGGGCAACA GTTAAAGATG GCTTTCTCA AGAGCAAACT
177351 AATCAGCACT ACATGAAAAA GGAAGATTTA GTGATATCA GAATCATGT
177401 TTAAGTAAAG AGGAAAGTGA AAAAGAGAAA TTAAGTTTGA ATTTATPCT
177451 ATTAGTAAAT CATCAAGAA TATCATCAAA ATATATCTA AAATAAGCT
177501 AAATATGAAA AAGAAACABA TGTGATGAA AAATAACAA GAAAAATTT
177551 TGCAAACTGA AAATTTTCTT CTCAACACA ABAAGCTAAA ATGTGAGTAT
177601 TGAATTAAT ATTACAGAT ACACTCTCT AAAATGCTA TCAACAGAG
177651 GTCTGCAATG TGGCTACTCT GTGGCAGGCA CAAAGTCTAT AGCAATCTA
177701 TTGCTACTCT ACAATAATGC AATTAATCAT TTCAAGATG AATTACGAT
177751 GGTACACAAA CTTTAATAAC AACTAGCTT ACTCAAGAG TATCATCTG
177801 CTACACTCTT CATTGATCT CTTCATCTT AATAAGCACT ATGTAAAGAG
177851 AGCTTACTCT TTATATCTCT ATTTCTACT ATTAATAAG GCAAGATAA
177901 ATAAATGGCT TATATAGCTG GAAAGCTATC AGAAGAGTAA GAAGAAGCA
177951 AGCTTTTTTA CTTCAAAATC AGTCTTTTT ATGCTATCTT ATATTTATCT
178001 ATTTACTTAT TCTCAGAAAC AATCTTTAT GTGCACTAA TAATGGGAG
178051 GCTATTATTA AAAGCTGTGC ACACAATCAT GGTCAATAAA CATTCTTAT
178101 CTTTATTCTA ATGGAGTTTA TACCTTTTA GGTCAAGCA GTTGTAAGCA
178151 AGCAAGCAAA CAAGGGCTAT AAGAGAGAGT ACATTTTACT GAGATCAAG
178201 AAAGGAGGCT GATCAGAGAG GACCTCTAAA GGAAGTAGCT GTAAAGAGAG
178251 AGCTTTTTTA TGTCTCTCT AGACAGAAAG TGTCAAGAA CTCTGAAATA
178301 GCAGACAGAG TAGATTCTCT AATTTCTAAT GAAAGCAACA ATCAAGAGCT
178351 TTTTCTGGAC ACAGGATAAA ACTGCTTTTT TACATGATC ATATAAATT
178401 ATTGACTAGT ATTTGAGCTA TCTGCTCTTA ATTTCTTTG CTTAAAGCAA
178451 GCTTATTCTG AAATAGAAGC ATATATATTT CACAATATA TGTGAAATCT
178501 ACAATAGCTT GTAAGTAGTG TCTTAATGTA ATGCAATTTA CTGTCACTAA
178551 TACTACTTGG AAATCABAA TTTTAATGTA ATCTAATTT CTTTTCTTT
178601 CTTTCTTTT CTTTTTTTTG AGCAAGATG TGGCTCTGT AATGAGCTG
178651 GATTAAGTGT AATGATCTT GTTCACTCT AATTTCTAGT TATGAGCTT
178701 AATCTCTCT CTTCTCTCT AATCTCTCT AATCTCTCT AATCTCTCT
178751 AATCTCTCT CTTCTCTCT AATCTCTCT AATCTCTCT AATCTCTCT
178801 CATTCTTCT CATTCTTCT CATTCTTCT CATTCTTCT CATTCTTCT
178851 TGTGCTCTCT GATTAGAGG GTGAGGCACT GGGGCACTT
178901 TAATTTCTCT TAAAGTTGAA AAGAGATCA TACAACAATA ATATGAGCT
178951 TTGGAATTCT TCTTTATTT AAAAAGCAA AAATAAAAA ATAATTTAA
179001 AAACCAACA TCAGGAGCTG TTAAGCTCT TGCAGACTCT GAAAAAGAG
179051 TGATGCAATA GTTCTTTTGA AACATCTCT AGTCTCTCT GATTGCTCT
179101 TCTCTCTCT TCTCTCTCT AATCTCTCT AATCTCTCT AATCTCTCT
179151 TATCTCTCT CATTCTCTT TATCTCTCT TATCTCTCT TATCTCTCT

FIGURE 3, page 57 of 173

179551 TTCTCTAATT TTCCAAATTC CTGTTGAAAA CAGGAATGAA CTGTTTGGGT
179601 AACCTCTTGA AAATTTGAGG GATAAAAATT GATTTCATTT TTCTTAACAG
179651 GTGAAAGATT AAAGAGTTTG CATTGACAGA GATTTCTCT ATTGGTAGGC
179701 AGGAGGTAGC AAGTGAAGTA TAAATGTGA CGTTAGGGC ACTGGAATCG
179751 TAATATGTTT AATTTGAATC TTGCAATGCA ATCTATGATT TTGCAAAACA
179801 TTTTGAAAAT AATTTTAATG TTTGCTACTT TCTTAAAAAT AATAAATAAT
179851 TAAATATTTT AAAAGTTACT GFAAGATAGA TGGCTTGTCA AATAAAGGGC
179901 TATCTTATTG TACAGAAATT GTTGTAAACA ATCACTGGGA AGCCTTCTAT
179951 AGAGGAGACA ATACTGGGT CTACTGGTAT CTAATAAAAT AAGTCTTTT
180001 CTCAGTCCCA CTTTGAATTA CTTGATGAT AAACAGATAG TTAAATTCT
180051 CATGCTTTT TATTGATAT ATACGATTT AAAGTTGTTG TTAGATTTAA
180101 CAGATTGTAA TATTGAAAGC AGGTGTTTT TGTCTTTTG ACASTTATA
180151 AAAAATAAAT GAATTAATTT CTAAAATGAA AAATTAGGAG TTTTAAACA
180201 AATCTAACAG GAGAAATTC GAGAAATGTA TAGTGTAAAT CAGACGAGC
180251 ATCAACCAAT TGAATATAAT GAATGTCTAC AGAAATCTTA TTAAATAACA
180301 GCAGAAATGA CATTCTCTTA AASTGACAT GGGACATTTA CAGAAATAGA
180351 ACACATCTTA TCCATTAAG CATAGTTCTA CATTAAAAAT AAAAGTAATT
180401 GTACATGGA TACCTTGA GACAAAGAA ATTAAATCTG AATTTAATGA
180451 CAGAAAGATA ACTGAAAGAT CTGCAAGTAC TTGAGGATTA AATAAAGCAT
180501 GGTCTAAACA AGAATTTTCA AGAAGAACTA AAAAGATTTT GAATTAATTT
180551 GAAATTAATA CAGAAATTTG CTATAATGCT GGATGAGAGA GAATGAGATA
180601 CTTAAGGGA AATGTGTAG ATTGAACTCT TATATTAGAA AAGAAATAAT
180651 AAGTAAATTC AATAATCTTA TTATGCTATT TAGGAAATCA GAAAGTAAGA
180701 GCAAAATGAA TCCAAATGAA GCTAGGAAA AGATATAAGG AATTTAGAGT
180751 GGAAATCAAT GAAATGAAA TAGGAATTTA ATAGAGGAAA ACCGATGAAA
180801 CAAAAAGCTG GTTTTTTAAA GTGAGCAATA CAATGATATA CCGCTATAGGC
180851 AGGCTAACTA CATAAAAACA GAAACACAAA ATTATTAAATA TCAGAAAGGG
180901 AAGAGGAGAC ATCACTACAC ATTCTCTGGA TATTAAAAAG AAAATTAATCT
180951 TCCAAAAGAT AAAATAGCTG GCTTAGATGA GTTCAATGCT GACTTCTACC
181001 AGAAATTTTA GGAAGAACTT ATACCAATTC TCTATATCTC TTCAAAGAGA
181051 TAGAAGTAGC AGGATACTT TCTAATATTC TATGAAGGCA TCATTACCTC
181101 AATACTAATA CAGATGAGG ATATTAGAG AAAAAAAGCT AGAGAGCAAT
181151 ATCTTTCTAG AATATAGATA AAAAAATCTT CAGCAGAATA TTATCAATTT
181201 CAATTCAACA ATGTATCAAA AGAATTCAT GGCCTATTG GGCAGGCTCA
181251 GTGGCTCATG CCGCTAATCC CAGCACTTTG GGAGGTTGAG CTGGGCTGGA
181301 TCACCTTGAGG TCAGGAGTTT GACACAGGCT TGGGCAATAC ACTGAAAGCT
181351 CGTCTCTACT AAAAATACAA AAATTAGGCA GGTGTGGTGG GGCATGCTG
181401 TAATCCGAGG TACTAAGAG GGTGAGGAG GAGAAATGCT TGAAGCTGGG
181451 AAGCAAGGCT TGCAGTCAGC CAGGATGCTG CTACTGCACT CCAGCTGGG
181501 TGACAAAGCG AGACTGAGTC TCAAAATAAA AAAAAAAGA ATTATATGCC
181551 ACTATCAAGT AGACTATATT CCAGTATGCA ATATGCAAGG CTACTTAAAC
181601 ATTTGAAAAT CAATTAAATG AATCCATCAC ATCAACAAGC TAAAGAGGAA
181651 AAGTTAAATG ATCAAAATCA CAGATACAGA GAAAGCATTT GTAAAGATCT
181701 ATCACTGCTT CATGATAAAG ACCTTAAGCA AATTAGCAAT AGAGCTAAT
181751 CTCTTAAAT TATGAGGAT CTAAAGCTAT CTAAAGCTGC ATTATAAT
181801 AATTTAAAT CAATAGTACT TCTGCTCTT AGCTTAGAA AAGAGCAAG
181851 ATCTTAAAT CATCTACTT TTTTCTGAT TCTTAAAG AATCTAATA
181901 ATCTAAAGG ATAGAGAAAG CATATAAAG TTTTAAATTT GAAATGAGG
181951 AATAAATTT CTTTTCAG ATCTGCTAT TGTCTGTGA GAGCTTAA
182001 AAGAAATTA TAAAAATCT TCTGAACT AATAAGCAAT TATAATAGG
182051 TTGTAATAAT CAGGGCTAAT CTACAAAAGT TAATCACTTT CTTATATACC
182101 AAGAAATTAAT GATTGGAAT TGAATTTAA AATAAATATG TAATTACATT
182151 AACACACAA AAATGAAATG CTTAGTTATA AATCTAACAA AATATATACA
182201 AGCTCAATAT GAGGAAACT ATAAAGCTCT GAGAAAAGAA ATCAACAGG
182251 ACTTAATATA AGGAAGAGAT AATCATGTT CATAGACAGG AAGATTGACA
182301 AATTGCTCTG TGAACAGAG AATAATCTAA TCAAAATTCG AGCAAGTTAT

FIGURE 3, page 58 of 173

182701 AAAAAAAGG TGAGCCTGTA CCAGTAGATT TGGTGTTGG TAAGCACCCC
182751 GGTGTTGSTT TATAGTTGGC CGTCTTCTT TTTGTGTTG CATGGCAGA
182801 AGGAATGABG GTGCTTCCA GGTATCAAT TATATACTA ATAATCTAAT
182851 TGCTAGATG CCCACCTCA TCAGCTAATC AGCTAAGAAA ATCCCACAC
182901 CCGATGGCCA TAACAATGGG GGTATGATT ATTTAAATT ATATACTTT
182951 AGGAATGCGA CAAACITCCA GTCCTAATA TAAAGCTAT CTAGAATTGG
183001 TCTATTGTTT TCTGCTATGA GTTTTATATC TGGCTTTTA CATTATSTGG
183051 TATGATTTCAT TTTGAATTAA TTACTGGGCA ATCTGTAAGC CTAAATGAGA
183101 ATTGAAAAATG GTACAATCAC TTTGGAAGAC AGTTTGGTAG TTCTAACAT
183151 ACATTTACAT ATATGACACA ATCACAATTT TTGGTATATA TCAAAATGAG
183201 TTTAAAAACAT ATGTCACAC AGAAAGCTGT ACACAGTTGT TTATACTATC
183251 TTTATTCATA ATTGCAAAA CTGGAAGGAG ACAAATATTT TTTTATGTAG
183301 GTAAACAGAT AAATAAACTG TAGTGCATCC ATACATGGA ATATTATPCA
183351 GGAATAAAAA GTTGAATAAA TAAATAGTAA TAAAAAGCTT TTAGCATGA
183401 AAAGACATGG TTTAAAGAG TACTTAAATG CATATTACTA AGTGAAGAG
183451 CATTATTGAA AAGGTTCAT ATCTGTAGAT CACAGCTGTA AAACATTCTG
183501 GAAAGGGAAG AACCATGAAG AAGTGAAGC AATGGGTGGT TTTAAAGGCT
183551 TGAGGGGAAG GGGGAAGATG AATAGATGG AGAAGAGAGG TTAATTAATG
183601 CAGTGAACAT ATTCTATG AGACTATAGC CCTGGATATA TTTCATTATA
183651 GTTTTCAAAA ACTTTTAAAG TGTACATAGA CCAAGAGTGA AATTAAGAG
183701 TAAACTATGG ACTTTGGATG ATGATGGTAC ATCAATGTAG GTTCATCCAT
183751 TATAACAAAT GTACCAATCT GGTGCAAGTT GTGGATAGTG GAGGAAGGCTG
183801 TACTTTGTGG TAGCTTCTGG TCAATTTCT TGTGAATGTA AACTGCTCT
183851 AAATAATAAA GTATATTAA GTGGCAAGTT TGCATAAGAA TCCCATTTTC
183901 TAGCAGCAAT CTGCTAAAGC TGGCTTAGCA CTTTAAAGG AAACATGCTT
183951 TCTAAATTTG CATGGTCTGT TCTTAGAGCA TTTCTCATTT TCTTATCTG
184001 TAGTCATTGG AATTTGGAAT GCTTGAGCTT CCAATAATCA CTATTTCTTT
184051 TAAACTAAAT CTAGCAAGC AAATCTCTGC ATTTTCTCTT TGTATTTTTC
184101 TACTTCTCTT TGATGCTGCA CAGCAAAAT CCGTCAAAAT TAATCATTA
184151 TGCAATATGG TTATATGCA AAATTTCTT TCTTACATA TGACCAAAAG
184201 TTTGTTTTCT ACCATATCAT CAAACATCTC AACCAAAATG TAGTGTCTTA
184251 ATACATATCC CTGGGTGAG TCTCATAGAA CTGGAAGGCA GAATAGTTAC
184301 TTTGCTACTT TTATGCTCAT CTCTCTTTTC TCATGATTTT CACTAATCA
184351 GCGTAATGAC TTTTCTGCTT TCTCATATTT CTCTATATGC TTTCGATTTA
184401 TGATTTATTT TCTTACAAAA AATGATGAT AAGAACTTA GGGGAAGTCA
184451 AGGATATAGA GCAACAGAAA ACTGAATTTG AGACACATTT CTATACCTTT
184501 ACTCCTCATG TATTATGTTG TGCATGCTTG TATATATACA TACCACTATT
184551 TTATGGTCTT TACAGCTTTT ATGATGATA TAGTCTTTT ACAGATGTT
184601 TAGAAGACTA ACATCAAGGT TGTATAGAAA CAGTCAAGTG GATTTATGTT
184651 TTGTGCTTCT GTTTCTCTAG AAAAAAGGCT ATCATGTTTT ACTTCAAGA
184701 CAGTATTTAC AACAGACTAG CTATCCACAG AGATCTTTCA AATTTCAAAA
184751 GAGAACATTT AAAATATGCT TGACTTTCTT GTTTTAGAAA ATTTATATAC
184801 AGTACAATGG AATCTTTTTG AAGGGCTTGA CACATAAAGT AATAATTTTA
184851 AGTGATTGTA GATGTAGATA GTTCTATCTT TTTAAATCT ATATATTTGT
184901 TCTTATTTCT TAAATATCT TCTTAGAAA TCTTTTAA TTAGATATCT
184951 ATAATAGAGA TCTCTTTCTT ATTATATATA TAAAGAAA CTATTTTTGA
185001 GAAATATGTA TGTATAGAAA ACTATGTTCT AATTTATAT CTATCTCTAA
185051 AATATATGTA AATATATCTT TTTTCTTTCT TCTTTCTTT TAAAGAAA
185101 GTTCTTTCTT CACTATCTCT CACTCTATCT TAAATATCT CACTCTCTCT
185151 AAATTTCTCT TCCAGGTTCT AAATCAATCT CATACTTAG CTTCCCAAGT
185201 AGCTGGGACT ACAAGGCGCG GCCACCAAGC CCAGCTAATT TTTTTTTTCT
185251 TTTATTTTTA GTAGAGATGG GGTTCACCT TGTGAGGAG GATGGTCTCG
185301 ATCTCTTGAC TCTGTGATCC GCCACCTCA GTCTCTGAAA GTGCTGGGAT
185351 TAGAGGCTGG ATCCATGACG CCGGCGCAGA CCAATAAAT TCTATGAGCG
185401 AGATATTATT ATCTCATTTT TGCAGATGAA CTTTATATTT GTCCAAGATT
185451 TAAAGAAA TAAATAGAG AGTGGGATF AAAATTTTA TTTGTCTGA

FIGURE 3, page 59 of 173

185851 GCTAATTGA AATTTTGTCT TTGATCAACA TCTCTTAATC CTGCTCCTCC
185852 CTTTCCTCTG TCCCTGGTAA ACAATTCTT ATTCTTCTCT TCTATGAGTT
185853 CAGTTTCTTT ATATTCCACA CATAAATTGAG AGTATCTAAT ACTTGTCTTT
186051 CTGTTCCTCA CTATTTCAT TTAATATAAT CTCCTGAGG CTATCCATT
186052 TGTTCGAAAT GACAAGAAAT TCTTTCAATT TAAGGCTGAA TATATCCCA
186101 TTTTCTATAT ATACCAAGAT CTCTTTCCTC ATCCATCTGT TGATTCCATA
186151 TCTTCTCTAT TGTGAATAAT GTTAAATGAG TAAGGCTGAG CAGATACTG
186201 TTTGACATAC TGAATTCATT TCTTTGGAT ATATATATAG GATGAAAT7
186251 GCTAGATCAT ATGCTCATTC TACTTTTAST TGTTTGAAGA ACTTCATAC
186301 CATTTTCTAT AATGCTTGA CCAATCTACA TAACCACTAA CACTCTGAA
186351 TCTTTCTCTT TCTCTCTCAT TCTTACCAAT ACTTATATAT TTTCTCTTT
186401 TTTATAAAAA CCAATTTAAT AGGTAAGGAG TGGTATCTTG TGTGCTTTA
186451 ATTTGCTTTT CTCTGATGAT TATGATGTT GGACATTTT TCTATACCT
186501 TTTGGCTATT TCTATCTTCT TTTTGAAGA ATTTCTATTC AGAGCTCTT
186551 CTCTATTCTA AATGATCTGA TTAATTTAAT ACTTCTATT GAGTTCTTT
186601 AGCTCTCTAT ATATTTTGA TATTAACAC ATATCAAAATG TATGCTTTT
186651 AATATCTCTT TCTATCTGA TATGCTCTT CACTTAATG ATTCTTTCT
186701 TGTATATGTA TGAATCTTT TTTTGGATTT CATCTATTTT TCTATTTTG
186751 CTCTTCTTTG TCTTTTGA GTCATTTCAA AAAAAAAAAA TCAATGCTCA
186801 CACTAAGGTC ATGAGCTTT TTTCTATCT TCTATCTGCT TCTATCTGA
186851 GTTCCAGATC TTAAGACTAA GTCTTTAAAT CATTTTGAAT TGGTTTCTT
186901 ATATGCTCTT GATTTAAGAG TTAATTTTA TCTTCTGCT TCTGATGCT
186951 GAGTCTCTCT AATAATTTT ATTGAAGA CTTCTCTTT TCTATCTAT
187001 GTTTTCTGCA CTCTTCTGCT AATGAGCTAT AATGCTGCTG GTTTATTTT
187051 GGGCTCTCTA TCTCTCTCTA TGGTCTCAT TCTCTCTTT TGGTCTAT
187101 CTTCTCTAT TCTCTCTA TACTCTCTC CTATATTTG AGTCAAGTA
187151 GTGCTATGCT TTAATCTTT TCTCTCTAC TCAAGATAC TCTGCTATT
187201 TGGCTCTCTC TCTATCTCA CACAAATTT AGGATTTTT TCTCTCTCT
187251 TGAAGAAATG TCTATGAAAT TTTGATAGG ATTTGCTGCA CTTATATAT
187301 TCTATCTGAT TTAATCTCT TCTCTCTCT TCTCTCTG TTTATAGAT
187351 TCTCTCTCTC AGATCTCTCA CTTCTCTCT TAAATGAT TCTGAGCT
187401 ATTTGTAAGG AGATCTCTCT CTTGATTTT TCTCTGCTA GTTCTATCT
187451 CATGATAGTA ACTCTCTCTG ATTTCTCTAT GTTCTATTTT CTATCTCTA
187501 ACTTTCTCTA ATTAATTTT TATTTCTAAT AGTTTTTCTG TGAATCTCTA
187551 TATCTCTCTC TTTCTCTCA AGACAACTTA ATTTCTCTCA TCTCAAGTT
187601 TATCTCTTTT ATTTCTCTCT CTTCTCTAAT TATCTCTGCT AGGACTCTCA
187651 TATCTCTCTT TAATAGAAAT GTCTCTCTA ATTTCTCTCT GAGTTCTCTA
187701 CATGATCTCT ATAACTCTCA TAACTCTCTG GATATCTCT TTAGCTCTCA
187751 TATTTTCTCT AGGTTCTCTA TCACTCTCT TAACTCTGAG CTTCTCTCT
187801 GCTTTTCTCT TAACTCTCTG TTTCTCTCTA GTGAAATGTA ATTAACTCT
187851 TGGGTTCTCA TGAAGGATG ATGAGGAAAT GTAGGCTTT TGGCTAAAG
187901 TAAGGCTCTA CCGCTCTAAT GTATCTCTCT CTACTCTAAT TCAAACTCT
187951 AAAGAAGGTT TTAATCTCTG TCAAGCTCT TCACTCTCT CTACTCTCT
188001 TCAAACTCT TCACTCTCTT AATACTCTT AATACTCTT ATCTCTCTA
188051 AAATACTCTA TCTCTCTA AATACTCTT ATCTCTCTT TAACTCTCTA
188101 ATTTCTCTTT ATAACTCTT TAACTCTCT TCTCTCTCT TAACTCTCTA
188151 CTTCTCTCTT ATAACTCTT ATAACTCTCT TCTCTCTCT TCTCTCTCTA
188201 TCTCTCTCTA ATAACTCTT TCTCTCTCT TCTCTCTCT TCTCTCTCTA
188251 ATCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCTA
188301 ATAACTCTCT AACTCTCTCT GGAATCTCTA TCTCTCTCT CCACTCTCT
188351 TGTCTCTCTA GAGAGGATCT AACTAATCTC CATGATCTCT AGATGATCTG
188401 AGGTGGAACA GTTCTCTCTT GAACTAATCT CCACTCTCT CTTCTCTCT
188451 AACTCTCTCT CCACTCTCTT CAAGCTCTCT TAAGCTCTCT CTTCTCTCT
188501 AAAAAAGGTT GAGGCTCTCT TCTCTCTCT TCTCTCTCT AATCTCTCT
188551 GTAATCTCTA TAAAGCTCTT GCTAATCTCT ATTCTCTCT TCTCTCTCT
188601 CAACTCTCTA ACTTAAAGG TCTAAGGTT TATCTCTCT TCTCTCTCTA

FIGURE 3, page 60 of 173

189001 AAAAGCCAAA AAATAGCAGA TCTCTCTGAA CATGACAGAA ACAGGGGAACA
189051 CTTCTACCTT GTTGGTGGGA GTGTAAATTA ATGCAACCAT TGTAGAAAGC
189101 AGTATACAAA TTCTTCAAAAG AGATAAAA AAGAACTACCA CTTGACCCAG
189151 CAATCCCAAT AGTACGATA TAGCAGAA AATATAAATC ATTCTACCGT
189201 AAACAGCCAT GCACACAAAT GTTCTATTGA GAACTCTTCA CAATAGCAAA
189251 GACATGGAAT CGACACAAAT TCCCTTAAAT GACAGATTGG ATAAAGAAAA
189301 TGTAGAASAT ATACACGATG GAACTACTAT GAGCTATTAA AAAAAAATF
189351 GTGTATTTTG CAGATSSAGC TGSAGGCTAT CATCTTAGC AAACTAACAG
189401 ASGAACAGAA AAGCAGGAT CTATCTTCT GACCTATAAG TGGGAGCTAA
189451 ATGATGAGAA CTGAGGAACA CAAAAGAGCG AACCAACA AG CTGAGGCTT
189501 ACTTGGGGGT GGGGTGGAG GAGGAGAG AGTGGAAAA ATAACCTATG
189551 GGTATTGGGC TTAATGCTTG GTTGATGAAA TAAATTCTAC CAGAAAACCC
189601 CATGACACAA ATTTACCTAT GTAGCAAAAG TTACATCTTA CTGCTGAAGC
189651 TAAAAATAAA GTTTTATTTT TTAATTCCTG TTGCAAAAAAT TATGCACTAA
189701 GATACTCTTC TCTTACATTT TATATATCTC ATATTCTAGA ATTAATCTTG
189751 GACATGDATA CAGAACTATT TACCAATAAA AAACTGGGAG TATACCTTTG
189801 GGCAGCTTGA GTCTTCTATA AGCTTTGCAA AAACTTATCA CTCTCTCTTT
189851 ACATGAAAGC ATGCTATTTT CAAGAATAA AGTAATTTAT CATCTTTTTT
189901 AATATCTAT CTCTGAATG TACTCATCT GTATCTCTTC TCAGAGTTT
189951 GGAGGCTAGA GTGTGGCTTT AGTTATAGCT ACTTACCTT TGAAGAGGCT
190001 CCACTGAGTT CACAGGCTCT CTCTCTTATT TATCTCACTA CTACTGAAT
190051 ATTGGTGGAA TCTCTCTAG GTATGAGATA TATATCTAGA GAATGAGTAC
190101 AAAAGCTATG ACAAACCTTG CTCTGCTAGA GCTGAACTCT TATGAGGGGA
190151 GGCAGATATC AAATAAAACA TCACTGCTGAT GGGATGAAAA TTGCAACTTG
190201 AGTTAGTTCT CATGAGGAG AATTACCCAG TCTGCGAGAA GTACCTGACA
190251 GGAGAACTTA ACTCTTTAG GAAGGCTAGA CATGCTCTTG CTGAGAGGCT
190301 GACATCTGAA CTTAGGCGAG GAATGAATAA GACTCTATCT AATGAGAGGG
190351 AAAGGAAAAA TCTCTCTAT GGTAGCAGCA TATGCAAAA TTTCTTCTTA
190401 GTTCTCTTCA TACTTTCTA GATATCATAT ATGCAAAAT AGCTCTCAAG
190451 AATATCTCTG AACAACCTGGA TCTTAATTTA TCAAAAAT TCTCTATAA
190501 ATTACAAATG AACTACCAAA ATCATAAGTT TCTGCTCTAT AATATCTCT
190551 ACACAAATAA AACTATTTTA ACTATACAA TATGAAAAA ATTATGAGGC
190601 ATTTTCTCTG ACATATGAGG TAAGTTTATT ACATATCTTT TGAACATGGA
190651 GAAGCTGCGA AAGCTTTAG CCACTGCTGAA TCTCTTAAAG AGCTCTCAAA
190701 TTACTCTTCA CTGCTAGAAA TTATCTTAGG CTGAACTGAT TCTAAGAAAT
190751 ATAAGATAAT GGGCTGCTG TGGCAGGCGA CAATCAAACT AAGATCTAT
190801 AATAGCAATG AGCTAAATAG CATCTAATAT GTAAAAATC AAATCTCTGA
190851 GCTTATTCTA CTGCTGTAAG AAGCTAAAGC TGGAGGCAAG TGTCTCTCTT
190901 CAGTCTTCTG TCTCTCTCT TCTCTTACCT AATGCTTAA TATATCTAGG
190951 ATATATTAAG TCTCTTATAT GAGTATCACA TCTATCAAA TAACTCTGCT
191001 TCATTACAAAT AATGATATAT TGTATTGCT GCTTACTTGT ATATATGAAG
191051 GTAAATGTAG CTATCTTTAA TTATACTCGG TCTCTGAGCT AACAAGAGGA
191101 GATTGAAGAA TCTCTTTTAA CTTAGAGTAA ATGTTCTCTAG TTGAAAATAA
191151 CTTCTGAAAA TCTCTCTTCT TCTCTCTCTG TCTCTCTCTG TCTGCTAGCA
191201 TATATCAATG GAAACAGATC AAGATCTCT TCTCTCTCTG AATGGGAGAT
191251 TAAAGATCTG GAAATCTCT TAAAGATCTG TAAAGATCTG AAAAAATA
191301 ATCTCTCTA ATATACTTA TAAAGATCTG TAAAGATCTG GAAATCTCT
191351 ATTTAAATTA TCTTAAATA ATAACTAAAT ATTAATTAAT CATTAATTA
191401 AAAATAGGAT TAGACAGTCT TTATTAGAGA TCTTAAATTA AAAATCACTT
191451 TCAATGTTT GGCATAGCTT TATCTCTTAA CAATTTACCA TTTGTGTAGA
191501 GTTAAGCTTT TCTCAAAAAG AAACTCTCTG TGACATAATT ATTCTGATAT
191551 AATCTTAAAG AAATCTTCTG CATACAAAAA AAGCTTTTCT GTGCATGTTA
191601 TTTCAAAATC CATTCATGCA TAAAGAGAA CATCTCTTTT CTCTGAGGCT
191651 TCTCTCTTAA TAAATGAGA TAAAGAGAA TTAATCTGAA TTTATTTTAT
191701 AATTATAGT GGAATAGAG TCTTAAATTA ATTTCTATCT TCTGAAAAA

FIGURE 3. page 61 of 173

192151 AGGCCAAGAG ACAAATCAT AAAAAAAG GTGGAAGCT GGATTTCCT
192201 CTGGGCCACA GTTTGTGAC CCGTGACTTA AAAA TAAGA TATGGATTGG
192251 AAGGAAAAA ATATTCTAGT CTGAGAAAAA SCATAAGCAA AAGCAGAGAG
192301 ATGTGTATTG ATGGAATGCT AATAGGCA TA TGA AAAAT AGAGACAGAG
192351 GAAACTGGAA ATGTATTGTA GACTAGAGCA TGA AAAATT AGATGATGT
192401 GATTATATG GTTTGCTCT GCTGCTCAAT CAAAACTTA GGTGAAATGG
192451 TAATATCAT GTGTTAAGG AAGSACCTGG TGGGA GCTGA CTGAATCATG
192501 GGGGCGGACT TCCCTCTTCC TTTCTCATG ATAGT GAGTT ACTTCTCAGG
192551 ASATCTCTTT GTTTGSAAGT GGTGCGCTT TCCCTCTTTG CTTCCTACTCT
192601 TTCTCTCTAC CATCTAAGT TGTGCTTGT TCCCTCTTTC CTTCCTACTCT
192651 GATTATATG TTTCTGATCT CTCTCAAGCA TGTCTCTTTC ATAGCTCGCA
192701 GAACGTGTA TCACTTAAAC TCTCTTTCTT CATAAATTAC TCAGTCTCAG
192751 GTAGTTCTTT ATAGCACTCT GAGAAATGAC TACTA GAGTG TTAAAGTTTA
192801 GTTAATGGA AAATACCTGA AGTTTATAAT AGGTAAATTCA TTAGTACGAT
192851 TTAGCAATCA CTCTTATGA ACCAATATTA TGGA GAATTT SACTTCAGAT
192901 CTATATTTCT AACTCTATG ATTTACTTAT CTCTATGAAC ATCATTAATT
192951 CAATAATTCT TTATTATGA CCAACCAAG GCAAACTAGG GATATGACAA
193001 TACATACAA ATAGTCTTGA TTTCTAACTT GTTTAGGCTT TTTTCTATCA
193051 GAACTAATA AGGATATCT ATTAGCTCTT TATCA GAGTG CTAAATAAGA
193101 CATACTCAAG ACTGGGTGAT TTATTAATGA AAGATGATTT ATTGATCTAG
193151 TTAATCTCTT CTGGGAGGCT CTCTTAATCA TGGTGAAGG CAATGAGGA
193201 GGAAGGAGG GTCTTAAGT GTGGGAGGCA AGAGA GCTCTT TGTGAGGAA
193251 CTCTTATTTA TAAAACTAT GAGATCTAT GAGATCTAT ACTAAGAGGA
193301 GAACATCTAT GGGGAAACCA CTCTTCTGAT TCAATTTAT CTACCTGGCC
193351 CTCTCTCTGA CATCTGGGCT TTATTAATAAT TCAAGGTGAT ATTCTGCTGG
193401 GACACAGGCT AACCACTAT GAGATATAAC ATAAAGAAAT CTAAATGCTG
193451 GCAACACAAA TTTAGGAGT ACCCTCATG TTTTAAACA ATTAATCTTA
193501 CATATCTCTA AAGCTTATG TTAATAAGG GCAAGCTGCT TTTTATCTGA
193551 GTATTTAAGT ATAACCTAT CCAAAAAACA CATCTGAACA CATACACACC
193601 AACAACAAA AAAACAGCT AAGGCTCTT TTTATTTAGT TTAGGAGAGT
193651 GGGCAAGCTT GGGCAAGCT TAAATCTCTT AGGAGTTTGG GCTATGAACT
193701 ACTTAACCTAA TTAACATGAT AACCAGCTCA TTAGGCTGAC ACATAAACTA
193751 AGCTTCTCTA TCTCTCTTT TGGGAGGCA CAGCTCATG GCGCTGGGAA
193801 GTGACATCTT AAGGCTCTT GTATTCTAT GTACTACTGA CCGACTTTAG
193851 ATAAAGTCTG TATGCTCTT TTTTCTATT CTCTGAATG AATTACACAA
193901 AGCTTATCTG ATCAGCTTA AACATACAC ATATATTATC TCATACTCTT
193951 GTAAAGTTAG AGGCTGAAAG GACTTACTCT GGTCTTTTTC TCAGAGTTCA
194001 AAGGCTTAA ATCAAGATCT TACCTAGCTT GGCTCTTTTC TGGAGGCTT
194051 TGAAGAAGAA TCTTTTCTCA AGCTTATCTA GGTCTGTTGGC AGCATCTAGT
194101 CCGTCTGCAAT TGTGCTATCT ATGCTCTCTT TTCTTTTCTT GCTGCTATCT
194151 GAGGCTCTCT GTCTGCTCT AGAATCTAG CATTTCTCT CTCTTATGCT
194201 CCGCTTTTCT TTCAAACTGG AAACAGCTCA TCAAGTCTCT CTTAGAGTTT
194251 GAATCTCTCT GTTTTCTCTT GCAGGCAACA ATTAGAGGAC GCTTTCTGCT
194301 TTTGAGTCTT CATGCTATG AATAAGCTCA TTGAATAAAC TTCTCATCTT
194351 AAGGCTAGCT ATGCTTAG TTATGCTATCA ACATAACATA ATTAAGAG
194401 TGGTATCTCA TTATATTCA GTTTTCTGAA ATTAAGCTG ACATTTTGA
194451 GGAAGGCTCT CTCTCTCTG TTTCTCTCTT AATTAATTTT AATAAGAA
194501 GAGAAATGA TAAATATAA CTCTAAGCTT ATTAATTTAT TTATTTCTT
194551 TCAATGCTAT AATATAGCT ATAAATTTAT CTCTCTTAT TAAATTTGA
194601 TGGATCACTT TGATCTATGA GAAGCAGATG CAACAGTCTT GTATTCTAGT
194651 AAGGCTTAC TCTGCTCTAC GTGGCCTTCT TCAAGTCTTA TATATACAGA
194701 TAAACATAA ATATATTCTT AAATATAAAT CGCTTATTGG AACTCTCTTC
194751 TTGTTTTTCT TGGCTTGAAT CCTCAAAACA TGGTATGTT TGGTGTATAC
194801 ACTGAGTTGA CAAAACAGT TCTTCTATAA TTTGAGGAGA TGAATTGTAT
194851 ATCTTTTAA GAGCTATAG ATTTAACTTT GTTTGAAAT TAATTTTA
194901 TCGCTTTGTA GAATTAGATG GGAATAAAT TTTGCTCTT TTATTAAG

195301 TTTAATTTTAA ACCTTTTATAG AGATGATATA CAGATGATAA GAGTTCAAAIA
195351 GATTCTAAAT ITGCAAATGA CTCAGATCA GCATGCTACC TCTGTTTCAT
195401 GGTGAATTTT TTGTTTAAAA ATTACATTTT GTAATAGGCC AGGTGTATTT
195451 GGTTCATGCT STAATGAGG TACTTTGGAA GGCACAAJCA GTGGATTCAC
195501 AAGGTCAAAA SATGGAGATC ATCCTGGCCA AATAATJAA ATTGCTCTTC
195551 TACTAAAA IT ATAAAAATTA GTTGGGTATG GTGGCACJTG CTTGTAGTTC
195601 CAGCTACTJA BBAJCTGAG JAAASAAAT CACTTJAAAC GGGGAGGJTG
195651 AGGTTGCA JT BGGCCAAJAT JAGGCTACTG CACTCCAJCC TGGTGACA JA
195701 GJAAAAATTT TT GTTAAAAAAA AATGCTTCAA TAAATATAAA CTCAAAATCAA
195751 JCAJAGST JA AAAAAJTAG TCCCATGSGG AJTTTJAAAA ACATAAAAT
195801 TCTJAAACT ATACTGATIT TGGTAAAAA GAGGAGAAAA GTGTACTTAA
195851 TGGCAJAGAA ACACJA JTAA AATAJAAJTA GJCAAAATGG TAATGATTTT
195901 TAGAAATTTA TATATA JACA CACACATATA TGAJTAAT TTTATTGACA
195951 AJATGCTTAT TTTCTAAJST TAAATAACCT TGGTTAAATA GGTACTCTGC
196001 ATATTITGJA GTGTJATJA TTTAAJGAAJ CAGTGTJTTA AATATAGTCT
196051 TCAJTGCTG JAAJGAGJTT TAAAJSTTT TJA JAAJAT AAAJTAATAA
196101 AATTAAJSSAA AAAAAJJA GCTCTGAGGA AAGJAAJTAG TGTCTTTT
196151 TTTJAAAAAG ACAAGJAAA GAGGTTCTTP CJDCAJGJTA TGTACACAT
196201 TAJTACAAAA AAGAAGJTT ATTCTAAAT TGAJTGCTT AACTAAAAAT
196251 TGTATTAAA AJAAJGGCT AJTATTTT AJTAJGAAJ TAJTATAGA
196301 TAAAACTTJA TATTTJACT TTGGATAAAT CTTAAJSTTG GTJAGATTTT
196351 AAACJACT JA AJTACJSTTT TGGTTATATT CAGGACAJJA TGGCTTAGCT
196401 TACJATTTTG ACACAGAAJA ATTGJAGATA TTTTJGATA GAAAJTAAGJ
196451 GAGTJTTTTG ACJGATAAAA ATAAAJAGAT CJAATJATA AJCTACJTG
196501 GTATTTTTT J BGGTGGGAT CATTAGTCAJ TTTAACTAT TTTACJTGGA
196551 CAJCTTTATJ AAAAAAJAAA GAAAACTTT AJTJACTAA AAGACACAJ
196601 CAJTAJCAJ TTTCTCTAT TTAAJTCAJ TCTTATTTGJ TAJTTTCTTT
196651 TCAJAJAAAJ AGGTTATTTG TEGATACJGA JTGJCTCTT GTAAAJTACAJ
196701 CAGATACAJ GCAJCTCTTT CCTCAAGTCC AJTTGTTTTT CTGAAJTTGJ
196751 CAAAAJGAGT TCTTTTACJ ATGGAJAGTT GATCTGGGGG GGGGGJGTAG
196801 GAGJGAAAAJ CAGGTAAJGA AGAAAJATAC CACAJAAAAJ ATAGTTAAGA
196851 GAAAAAGAJ AGTATGCTG TGAJCTCAAG CCAJTAAJCT GAAGAACAJ
196901 GGTJTTTTGJ CAJTAAJCAA CGAJTAGAA CTTTCAJTA TAAJTTCCJ
196951 TTTATCCCT JAGTGTCAJ CAJATTTTTT AAAGTCAJ ACAAJCTCTTA
197001 CTCAJTAAT TATCAJCTCT CCAAJTAAT CATTTTTCTT TTTCTTTCT
197051 TTTCTTTTTT TTTTTTTT TTTTTTTGAG ATAJAGTCTT CTTCTCTCAC
197101 CAGGCTGGAG TGCAGTGGJA TGATCTGGG CAAJTGCAAJ CTCCAJCTCC
197151 TGGGTTCAAG GATTCACTT GCTCAGCT CCAAJTAGJ TGGGAJTACA
197201 GGTJTGCGGJ CCAJCTGCTT GCTGATTTT TATCTTAGJ AGAJCGGGG
197251 TTTCAJCAJ TGGGCAJGA TGGTJTGAT CTTCTCAJCT TGTCAJCCAJ
197301 GGTCTTGCGJ CTCCAAAJT GCTGGGJTA CAGGCTGAG CCAJCTCGGJ
197351 CGGCTGTTAA TCAJTTTTCT TTAACAAT AJATCAJCT TACTTTTTCC
197401 AJAATJTA AJCAAJTTCA TTTCAJCTAT AAJTTTTCAJ AAATAJTTTT
197451 CCAAJTATTT ATAJCTTAAT TTATJCTA ATAJAJTAA AAJATATTT
197501 CAJAGTTTTT GTTTTTGT TTTTGGTTTT TTTTGTGT TTTTGTTT
197551 TTTTGTTT GTTTTTAA ATAGGTTTT ATAJATCTT CAGJGTCTA
197601 TTTAAAAAJ AAJAJTAA AJCTAAAJ GTTTAAAJ AJTTTCTT
197651 TAAAJATTT TATTTTTT TTTTAA AJATTTAA AJATTTAA
197701 CTTAJGATTT ATTTGATAAJ AATTAAATA AAJAJTGA AJTCAAJTT
197751 TTACAJTCAJ TAAAJATTT CAJAGGAAGA AJTTCTATTA AJTTCTGATTT
197801 TTTTAAJTA ATAGCTTGGJ CTGTCTAGTT TCAAJCTTTA ATTGCAJAAA
197851 TATTTCTATT TATCTCCAJ TCACTCCAJ AAJATATCTT TAAAJCTCT
197901 AAACCAJATG CATTCTTTCA TCTTACATTT CTTCTAGTGC CCAAJATTTG
197951 AJCAJCTATG TAACTCTTT CAGCTTAAAA TTAAJATAG
198001 TTTGATAT TT GTTTTTTT TTTAGJAT TTTTCTTA TTAJTTTT
198051 TTTCAJCTT CTTCTTAT TACTCTTAT TCTAJAGGAA TAJAAAAAJ

FIGURE 3, page 63 of 173

198451 GTACATACAG AAGCAAGATT CAGAGACAAG AATTAACTTA AGGCTCTAC
198501 AACTCATATG TTAAATTFTA AGAAAAGCAT GTACAAATGC AAATTTAAAA
198551 TAATAAATAT TAAATGGCA GATAATGATG TAAAGGCAGT GTTTTAATT
198601 AGTGGCTAAC AAATGGGATA ATCAATACAT AATTATTGTT GTAATTAATA
198651 TACTGCTGA GTTGTGATT CAAATGATG GCTTAAGAG TCCAGAAGA
198701 AGCCGFCAT GTAAAGTATT TAATTGGGA AAAATACIAA GCTTGAHAT
198751 CCTGAATTTA ACCACAGCA AACTGTCGT ACTCTATACT TATCTATTGG
198801 AATTTAATTG CTGGAAGAG CTTTAGTTTC APTTGAATA TCTCTTTGA
198851 GTGGCCAGAT CGTTGTCTG CTCTCTTATG AACAAACAAA ATAAAAATAAC
198901 CATTGSSSCT CCATTGAAAC TGAAGTGGCT AASAAA333C TCCAGTTAT
198951 TAAATATATG CCAATCTCT AGACTCTATG TISATATTT TAAATTAAGC
199001 TTTTATTCT GSSATAATTA TAAAAAAAT GCAGTTTAA GAAATAATGT
199051 AGAGAGATCC CATTTCCAGC AATGATAACA TTTTGCAAA CTASTTTCCA
199101 CCAATGATAA CATTTTGCAG AATTAGTTTC CAGGAATGAT AACATTTTGC
199151 AAAACTATAG TACAAGATAG CACCCAGAAAT ATTATCATAG ATTAATCAA
199201 GATACAAAAC ATTTCCCTCA CAACAGTTTC CCGTGTATAA TCASTTTCCA
199251 ACCCTTTCTT CACTCCCTCA CCTCTAGGCT GTTCTCTCA TCTCTAATCT
199301 TCTCATTTCA AGAATGTTCT GTAAGAGGAA TAATATACCA TCCAACTCTT
199351 TTTTTTTTTT AAATAAGAG AAGGTCTCAC TATGTTGAAG AGGTTGCTCT
199401 TGAAGTCTCT ACCTGATCTC AAGGCTCTCT CCAATCTCA CCGTCCAAAG
199451 TCTCTGGATT ATAGGCTCTA CCAATCTCA CCGTCTCAAG AACACATAC
199501 AATGTAATCT TTTAGTCTCT CTTTTTTTCA GTCAGCTTAA TTTCTCTCAT
199551 ATTAATCTCA GTTTTCTCAT ATATCAGTAC TCAATTTTAT TCTTCTAGTAC
199601 TATTCCACGA TACACATCTA CCATAGTTTC TATAAGCTGT CACTCTCTGA
199651 AGGTAATCTCT TCTTATTTAT GGGTTTTCTC TATTATAAAT AGAGATACCA
199701 TAAACATTTCA TGTACAGGTT TTACATGAGC ATAAGTTCTA GACTCTAAT
199751 TCTTAGGTTCA TGTGGTCTCT CTGCTTTCTAG TTTTATAGA AATTCTCAAA
199801 CTGATTTCTA TAATGGCTCT ATCATTATAC CTCTCATCA GCTATCTCTG
199851 AATGATCTAG TTTTTCTAAC CCCCACAGC ATTTGGTTTT AFCAATATTT
199901 TTTAGTTTAC CCATTTCTAC AGATCTATGG TGATATCTCA TTTTGGTTTT
199951 AATTTCTACT TCCCTAATGG CTAATGAGCT GGAATTTTTT TCACTCTGATT
200001 ATTTGCTCAT TGAATATAGT TTTCACTGAA AATCTCTTCA TCACTTTTAT
200051 CTATTTCTCA GTTGGCTCTCT TTGTTCTCTT CACTAGTCTG CTCTGAGAGG
200101 TCTTTACATA TTCTAGATAC CAGTCTTTTA CTGGTATCTT CATTTGCAAT
200151 ATTTCTCTCC ACATATATCT TTGCTCTTTT TCACTTAAAA AGTTTTGATA
200201 TTAACAAAAA CCAAAATCTC AATTTTCTCT TCACTGATCT APTTTTGGG
200251 TGTCAAGTCT AAGAATTATT CCTATTCTA GATCTGGAAG ATTTTCTTCC
200301 ATGTTTGGTT CTAAAAGTTT TGTAGATCTA CATTTTACAT TTAAGCCTGT
200351 GATACATTTT GAGTTAGTTT TTGCAACAAG TTTGAGACTT GGGTCAAAAT
200401 TCATTTTTTT TTAATGTATA TGGGATGTC AATTTCTCTC ACTTCATTTG
200451 GTGAAAAAGG TATCTCTCTT CCACTGAATC ATTTTATATA CTAAAAAAA
200501 ATAGGCAGGC ATATTTATGT GGGTCTATTT CTAGTTACTG TGTATATTC
200551 CATGGATCTA TGCATCTATG CTCCACTTAA TAAGATGCAA TCTTIGATTAG
200601 GGTAGTTATG TTATAAGTTT TGAATCTATA TAGCTTAATT ATTTCTATTT
200651 TAATCTCTTT CAAATGCTCT TAAAACTATT CTAGTTCTTT TGTCTTCTAA
200701 TATAAAGATT CATTCTATAT TTTTATTTCT TATAAAGAAA ATATTTCTCT
200751 TGAATTTCT TAACTATCT TTTAAATTT TATAAAGATT TATAAAGATT
200801 TAAATATCTT ACTATATCT CTCTATATCT AATAAAGATT TTTTCTAA
200851 CATTTATCTA AATATTTCTT TTTTAACTT AAGGATCTCT TAATTTCTCT
200901 CATAAGGCTC CTATACATTT TTTTATGATT GAGATCTAAG TAATCTCTCT
200951 AGTGATTGGA AATGGTGTTA CATTTTAAAT TTTGGCTCAT GGTACTATA
201001 TAGAAATATA ATGGGCTTTT TGTATATCTC TCTCTGCTCT TACTGAACT
201051 CATTTATTAG TTTAGGAGG ATTTCTGCTA GATTCTTAG CATTTTGTG
201101 TGGCATCTAT CACTGCTAT AATAATAGGA ACATTTTAT TCTATCTTT
201151 TGAATCTCTA TGTCTCTCT TTTTTTTT GATTATTAAT ATTAAGATT
201201 CTAGTCTCTT GTTAAATAG ACTTCTCTGA TTTGAGATTT TTAATTTCTT

FIGURE 3, page 64 of 173

201601 GCTTACCTAT CTACAAAG TGTGAGGATT GAATAGATA ATCTAGTAA
 201651 AATGATTAGC AFAAGGTAAT AATTTAAATT TTGGCTATCA TCACTTTAG
 201701 TGTTAGATAA AATAGTGTGG AATGAAAGAT TCCTCTGTAA GAATGTATTT
 201751 AGTTGTTTTC AATGSGGATG AAAAGAGTGA TCTTTCTGCA ACACAAAGGG
 201801 ATGTTTGTTA ATGCTGAGG ATATTCTTGG TTGGGAGGTA TGGTGGTAGG
 201851 GGGGAAGTGG CTATTAGTAT CTAATAGGCA GAGGCAAGG ATTGTGCTAG
 201901 GCATCTTACA ATGACAAAG CAGCATCCCT GATAAAGAG AATTATGA GT
 201951 AAGTTTAAA TGATAATA GT GCCAACTTTG SCAGAGCTGA TTTATATG GA
 202001 TAGATGTCTG TGGGTGAATA TGTAAAAAT AGCTTSCAGT TCAGGAGTGA
 202051 ATTTCCATTT CCGGTTTAAT GCTTGAAGTA AACCTACTTT CTCTAGGCTC
 202101 TCTTATGAT TGGTCTCTCC CAGTTTAAAG CTGGCTTAG TCTGCTAT GC
 202151 TTCTAATTAAT TTATTAATTT ATGCTTAAAT ATGTGAGTTG GGTACCA GC
 202201 CAGAGAGTAA ATGTTTGCAC ACAGAAATTT CATATTCCTT GAAATAAA TT
 202251 AACTCTAATT TTCTAGTACA TAATTCTGAT AGCTATCAAA TACATTTAAT
 202301 CACGCTTTCT TCGACTTGA TTTTTTATC TTAGATGCTG GTTACTTTT
 202351 AAGCTTTCTG TCTTTATTAC TATTTATCA ACGTTTGA GTTAATGATG
 202401 TGACATCTTG TTTATGAGTA AGGTTGAGTA ACGTCTAG AAATTTCTC
 202451 TTCTGCTTTG AAAATGCA GA AATTTAATTT GTGTAACTC TAAGCTATTA
 202501 APATTTTCTG TTAAGATGAC TCCAAACAGG AATGCATATA AAATGACCTC
 202551 APATTTATAT TCAATTAAC ATTTGAAAAA CTGATTTAAA AAATGAGTAT
 202601 AAAAAATGGA ACTGATGATT AAGTAAAAAT CCTTTCTCAA GGGCACTAAT
 202651 ATAAAGGAGA ATCTAATTTT ATGTTGCTC AGTGACTGTT TTCTCTCTCT
 202701 GTGATTTTCT TCATTGAGGA TAAGGAGTTT TATAGCAAA TCTTTGAT
 202751 TCGAAGGTAA AGCTAGAAAT GTGCAAGGAG TACCTCAGA TACGCTTGA
 202801 ACTATGAGCT CAATGTGAAA AACAACTAG CCAAGAACTT TATCTCTAG
 202851 TATTATATTA TAGCTAGAGT GTGCTTCTCA TTGAAAGATA AAAGGTGAGG
 202901 GGTGCTATCT ATTTAAAAAA TGGCTCTCTCA TAGGCTTGGC ATTGATCTG
 202951 AATTCTCTCA ATCATGGTAA CCGCTTTGAA TTAAGATGTC ATTTCTCTCA
 203001 TCTACTATG AAAAGATAAT TCAAAACAAA GCACTAAGAG ATGTAACTAA
 203051 CTACAACTTT TCATCAACTT ACATGTAAAG CAGCATGTTA ATGCTCTGAT
 203101 CTGAAGGAGC TAATAAATCA CAACAATCTC TTCTCTCTCT TCCCAAGATC
 203151 AGATAGAGAT CAGCAGATCA ATTTTCTTTG TTTCTGTTTT TTAATAAAA
 203201 TTGTATATAT TTATGAGTGA CAACATGATA TTTTGATATA GGTCTATCT
 203251 ATGGAATGAC TAAATCAAGC TAATTATCAA AAGTGTATCC TCATATCTT
 203301 GTTTTATCTG GAGAAAGCTT AAAATCTACT CTCAGCATTA TTAAGTATAC
 203351 AGTATCTCTG TTCTAATAT TGTCACTATG AGGTAGGATA CAGCTCTTAA
 203401 ATTCAITTTT TCTTTCTAAG TGAAATGTTT TATCTTTGA CTAATAATCT
 203451 AGTTGATAGC ATATGAGCTT TCTAATTAGT TAAATGGATT AGAGAAAGG
 203501 GCTTAGATCT TTGGGCACTT GGAAGTATCG GGTATGTTTC TTCTACTAAT
 203551 GCAAGATGAT CCAGGGGATA GTCTGCAAG CAGAGACATA CATGGAAAT
 203601 TCGAAGGGGA ATCACTGCTT TACTCTCAAC GCTCTGGCAA AGGAAAGAGG
 203651 AACAGCTCAC ATAGGGAAGG ATTAATTAAT ATGGAAAGAG ACTAGAAATG
 203701 TCGAATTTCT CCACATGAAA ACAAGAGGAT GGAATTCCTC TAACCATTA
 203751 CATGGAAAAA GGCACATCA ACTTTTCAAG ATGAGAAAAA GAGGTGAGG
 203801 AAGGTATATT TTATCTAGG TAACTCATG GGTATTTCT AGGATTAAG
 203851 TAAAGAAAA GATCTATAT TGAATTTCT TATTTAGG TTTAATGAT
 203901 TCTTTTAAAG TAACTTAT AAGATCTAT ATTTTAAA AATGCTGAT
 203951 AATCTGTTG TAACTTAT AATCTCTT GATTAATTA AATAAGAT
 204001 TGAATACTT TAAATTTT ACATTAAG TTTAATTA AAAGAAAT
 204051 CTATTATCA GTAAATCTA TCAGGCTAG CTTCAGAGG AACATTGATA
 204101 ACTTGGGCCA TTGAAGCAAA ATAGAATAAA TAGCTTTGTT TTCTAATCTG
 204151 AAGGGATTTA TAGGTTAATC CTGTGATGTT ATTTGCTTC ATCCATGTTA
 204201 ATGAAATATA TTTCTTCAAT TTGTGTGAAA AAATACCTAA AAGCAACAGA
 204251 ATATGATCAG TTTATTAAAA TGTGCACTTG TGATGTGATA TGAAGTATGT
 204301 GATGATATG TATTTAAT GAACTTTTAT GTTACTTTT TCTTTTGA
 204351 TTAAGATCTT TATCTTTTGA ATCATCTAGG CTTTAAAG AAAAAAGAAA

FIGURE 3. page 65 of 173

204751 CAJAAAAATTT TTTTGGTAAA TGGAAAAAAA ATGTATATAA TAAATAATTU
 204801 ATTTTGAAATAT CAATTTTGGAA GGSATACATT TTATGATAG ATACTAAAAAT
 204851 AACTGAAAGC AAGTAGGTG TCAAAAAGGA AGCTTTAATG AATGACAT
 204901 GGGCTTTTCC AAGAGAGGTA AASTGAGCTT TTSAATATTT TCGTAAAGTG
 204951 AGAAAAAGAA TTATTCTGTAA GAGAGAGGCT ACTAAGGAGG CATATTGGAT
 205001 AGCTTTTTTTT GAGAGAGAA TTTTTCGAAA AATCTCTCTG GCTTATGGAT
 205051 AAAAAATCAT AAGGAATTTG AACTTTCTTG TGTAGAAAA CAACAGGCTT
 205101 TGCAGTAGCT TCTCATAGT TAAAAATTC AATGTTTAA TAGCAAAAGAA
 205151 TGCAGTTCTC GGTGAAAAAT TTSTAGTGG TATTTTTGA CAAGATAAAA
 205201 TGGAGAAACA TTCTAAGTCA AGATTTTGTG TTTTTCATTA GGCAACAAAG
 205251 ACAAAAGAGA GGTGAATAGA TCAAAAGGAA CATAGTTACT ATCAAAAAAG
 205301 AATTAAGAGG AATTTGTGAT CAGATATGTG CATGGAAGCA ATTTTAAGCC
 205351 TGTCTGGGTG GGTGTAAAT CAGGACGTAG ATTTCGAAAA GTTTAAAGCC
 205401 AAAAAATGGG ACTAAATACA TAGATTCTTG AGGAAATAGA TAATTGAGAG
 205451 GAGGCGAGAT CAATCTGAAA TAAAGAGGA TTAAGATTC TGAAGAGCC
 205501 AAGAGTTCTA TAGGSAAGAA GAGGAGAAAA AGTATAGTAA TATCTTGGG
 205551 AGCTATTTAT TTATATTTA TTTCTATTA TTTCTAAGAA TTTCTAATC
 205601 ATTTCTATTC TCTGCGATG GATTTGAAA AACTTAAAGG GAGAAAATCT
 205651 GTCTTACCTA TTTTATATTC CAATGTTAG GTCATATCTT GGCATAAAT
 205701 AATATTTTGC TGAAGTTGA AATTATAGAG AATCTGAGA TATGATCTT
 205751 TGGGTAGAT ATCTAAGAT AGGAGCTTCC AATAGAAATT TTGGGATGA
 205801 TAAAAATTTT CTACACTTTC AATATGGA ATACTAGGC AATGATATCT
 205851 ATAAAGGAGT TGAAAGAGTA TGTATAGAG AAGGAACTG GATTATTAAT
 205901 TTTATTTAAT TTGAATTAAG TAAAAATTA AATTAAAGAT TAAGTAGGCA
 205951 CATGTTAGAC AGGCTGGTGC TATATTTTAC AAGAGAAAG AAGAGAGGGA
 206001 AGGTGTTGGT TTTCTGATA TTTTAAATCT TTTTGAATAT TGTCTATCTA
 206051 GGTCTCCGAT TTGTCATTTT TCATCAAGAA ATCCAAAGTA AAGAAAGATA
 206101 GTCTTATATT TCAAGTTAGT GAAAGGTGAC AATCTTTTTT CTATTTAAT
 206151 TGTATTGACT TCTTTTCTT TCTATCTCC TTTTATAATC GTTGACTCTG
 206201 TGTATAGGCA AGGATAAGG AAGATAGCTA AGGACACAGA CTTGCTGAGC
 206251 TTGCACTGGA ACAGCGGAGA CATTCCTTAA GGTCTGCTT CTCACTGCTC
 206301 TCATCGGTGA CATAGAGATT AATATGCTCA CTGATAGGT TGGCAGGAGG
 206351 ATTAATGGCA ATATTTCTAG TTTCTGCTCC AAGACTTACA GATAAAGGCC
 206401 AGTAATTTGT AGTGTGATA CTCTGTATTTG TTTCTAGGAT AAGATAATAT
 206451 GCTAATTTGT GTGAAGATAT TGAAGATAT AGTTAAGTAC CAATATTTT
 206501 TGTGCTTTT TGTCAATAGT GTCAATAGT CTTTCTGCAA TAGCTGCTGA
 206551 TATAAAGAGG GCATGCTTTT CTAAGAGGAC CTGCTGCTTT TCAAGGTCCT
 206601 TGTGTTTACT ATACAAAGAA AGAGAAAGCT GTTTTACTA TATTTTAAIA
 206651 ATCTAGGAC AGAGACTGCT ATTTAATAGT ATTTAATACT GCTTTTAAAT
 206701 CATTTATGAA TTTAATTAAT ATAAAAATAT AGTATTTACT GCTGCTTCTA
 206751 AAGGAAAACA ATGCTCTTAT AGTAAAGAGC GATGAGTAAC AGCTATAGT
 206801 AGAAGATATG ATGAACAGAA AATATGCTAT TAAGTATAGT AACATTAAAT
 206851 TCCACAGCAA CTGATTTCTT ACACACAGAG ATAAATACAT ATTCTAGGAA
 206901 AATGTTTAAAC AATAAATAGT AAGGATTTAT GTAAAGAAAA TTGCTGAACT
 206951 TATATAAGTT ATTTCAATTTG TAAAGAGAT TTAATTAAT TAAAGAGG
 207001 ATTTATTTAT GTATAGGAAA ATTTCAATTTG TAAAGAGAG TAAATTTT
 207051 TGAATTTTAT GTGAGGATTT TTAGGAAAT TTTTGAAGAA TAAAGAGGAA
 207101 AATATTTTAT TAAAGAGAT TAAAGAGAT TAAAGAGAT AATATTTT
 207151 AATATTTTAA TTTAATTAAG AATATTAAT TAAATTTT TAAATTTT
 207201 GATGGAATTC AAAATGGGCC CTAGTAAAT AATTTAAGAT AAAAAAGGG
 207251 TCACTGGCA AAAATTAGTT TACCATTTCT ATTTGGGCTG TATTGAAAA
 207301 ATAAATCTA GATGGATTA GGTTTTATAT AAAATGACAC AAGGAATTA
 207351 GATGAAAATA TTATCTGATG GGGTAGGCA AAGGATAATA AACTTTAAAG
 207401 AAGTAGATA ATATAGATA AATTAAGAG TTATAGATCT AATTAATCTT
 207451 TTAGTTTTT ATCATATTA AATGATGAA AAAATTAAT TAAAGAGAT
 207501 AACTTTTAA AAAATTTTCT ATAGGAGAA AAAAAAGGAA ATTTTAGAG

FIGURE 3, page 66 of 173

207901 CTATTGATTT TTGGAAAAGT CTTTCATTTT TATTTAGGGA AATTTAGGAA
207951 ATTTTTTTCT CCCACTTCTG GGTCTTGCAT TTTATTTAGA AAGTCTTTCC
208001 CTCTTTTACA AGTTTCTCCA TCTGATATA AAAACATTTT CTTTATTTT
208051 TATCTAATAT TTGAATTTTC AATTGATATA AAATTTATTT CTAGGACAG
208101 AGTACTAAT ATGATCTAAT TTTGTTTCAT TTTAGATAT TACCTATTT
208151 TCACAAAGAG ATTTAATAGT CTATCCCTTC TTGAGGTTTT TAAATAAAGC
208201 TTATTCAAGA TATATTTATA TGTATTTATA GTCTTTTTTC TGGATCAAT
208251 TCTTTTTCAT TATCGATTA TGGAAATCTC AGCCAACTTC CTTGTTATAA
208301 TTACAATAGA TTAATATTTT GATCTCTTTT TAGACATCTT TTTTATTGA
208351 AAGTTTCTTT CTAATATTTA ATATTCTCTT TTTCAATAG AATTGTAAAA
208401 TCAACTTATC AGTTTCTATA AATATAATGT TGAAGATTTG ATAAAAATA
208451 TTTTCAGTTT ATAGATTAT TCAAGGAAAA TTGATATCTT ATGAAACTGA
208501 GATTTTTTAA TCTTAAAAAT TGATATATCT CTATATTTAT TTAGTTATTT
208551 TCAGCACCAC ACAATCAATT AAACCTTCTG CTTCTCTCAT CTAGGCATAC
208601 ACCTTCTCTT AATATTTGAT TTTCAAGTAT TTTATCTCTT GTTGTCTTTG
208651 CTATTACCAA TGATACTATT TTTCTATTA ATTTCTAAT TGGTATTTCT
208701 TGCTTTACCG AAAAGCTCTT GAATTTCTTA AACTTATAT CTTCTGAAAT
208751 CATTTTATGT CTTTCTAGTA TTTTCTATTT ATTAATCTTG ATTTGCTAT
208801 TATATAACCT TATCTCAAAA TACGGGCTAG TTTTCTCTTT CTTCTCAAC
208851 ATTTATACAT TCAATTTTCT ATCTCTCTTT TTTCTATAAT GAATTAAGCT
208901 TACATATGAT TTTCTCTAGT AGTTTCTCTT CTATATTTG TTAGCAGGAC
208951 TGTCTCTAAT ATTTAACTAT TAGGAATAT TTTTCTCTTT TTTGCTTTCT
209001 GGTAGATAT TTTCTATATA TTTTCTCTAG TAATTTCTAA CATTTTAAAA
209051 CAGAATTTCT TGGGAGCTTT TAATATTTCT TGTCTCAAC TACATTTACA
209101 TTCTTCTTAA TCTCTCTCTA GTTTCTCTAT TCTCTCTGAC TTTCAATCTT
209151 TCTTCTCTCA TAAGCTATTA ATTTCTCTCT GGTATTTAT ATCATCTGGT
209201 GTTGTCTCTC ACAGTTACTT TTTTATTTCT TTTCTATGAT TTTCTAGGAC
209251 TTTTGTAGTG TTATAATAT ATTTATTAAC TCAATATAAA TGGAAATAAC
209301 GTTATATATT CTATGATTTT AGCAATAAAT TTTTCTCTTA CAGATTTCTT
209351 TGTAATTTCA TATTTTAAAA AAAATCTTAT AAGTTAAAA TAAGAAATAA
209401 TAGTGTATGA ATTTATTTCA ACTTTACTCT TAAGAGTTAA ATACAGAATC
209451 TGTCCATTTA TAAGAAAGAG TTTCTAGATA TTTTCTCTCT CCAATTTTCT
209501 ACCATGTCTT AACCACTCTT GTTACAGACA ATCATCTACG GGAGATCTGC
209551 TCTAATCAAA AATACCTCAG AGACAGAGGG AAAAAATGCA ATTTGCTCTA
209601 ATGATACGAA ACAAAATCTT AAAATCTTAA TGTAAAGAGT CAGTAATAGA
209651 GTGGTATTTT CAGTAGGGGT ACAGGGGCAAG CATCTCATCT GGTGAAAGTG
209701 CAGCAGAACG CTGTATCAAA ACAGTAAGTG CCAGCTCTAG AAATTTCAAT
209751 CCTAAAAATG CAGTTATTTT AGATAAATGA AATACAGGGA CAAACCTGCT
209801 CAGCTTCTAA GCTCTGCTGT CTTGAAATCT AGCTATGAAA TCTCACTCTG
209851 CCGAGTCTCA GCTGCTGTTG ACCTAACTCT AGTATGCTG TTTCACTCTG
209901 GGTTTAATAT GAATGCTGCT GTTCTATAGG CTTCTGACAG ATAGGGAACC
209951 TCAGAACCAC AGCAGGCTCT CCAGGACTCT CCGAGCTACC TGGAACCTGA
210001 TCGGGGAGAT TAGACTGGCA GAACACCAAG ATAGAGTTCT TTAATGTTT
210051 CCAATTTTAA CCTCTCTCTA TTAAGATTA AACTTTAGTT CAGCTCTATC
210101 TTTAATTTAA GATTTTATTT TTTAAAGTTT ATTTCTCTCT GGGTCTATTT
210151 TTTCTGCTCT GATTTCACTT TTAAGCTCTT TTAAGATATA TTTAATTTAT
210201 TATTTAATTA TTTTAAATTT TTTTAAATTT ATTTCTCTCT CTTTAAATTA
210251 TATTTAATTA TATTTTAAAT AAATAATTT TTTAATTTAT TTTTAAATTT
210301 TTTAATTTTA AATTTCTCTT TTTAAATTTT ATTTCTCTCT CAAATTAATTA
210351 ATCTAATTTT CTAAAGCTAG TGTCTCTAGG TGTAGCTGTA ATGACATTAC
210401 ATTTTCTTAA CTCTCTCTCT GTCTTTTCTT TCTATGCTCT TTTTAAATTT
210451 TATTTTCTAT TCTCTCTCTT CCGGCACTTA TGGGTCTAG ATGTTCTTGA
210501 AGCTCTCTCT CTAGTCTCTT TCTCTCTCTT TAAGCTCTTA TCTTTCTCTA
210551 GATAATTTTA CTTAGCTCTA TATTTCTATG TATAACAAT GGGTCTAATTT
210601 CATAAATTTT CATTTTAATC CTTTATCTCT TCTTAATCTT TAGATTTTAA
210651 TATTTATTTT CTATTTTCTA TTTATTTCTA GAGCTTTCTT CAGATTTTAA

FIGURE 3, page 67 of 173

211051 GTATTTCATAT GTTCTGTCTG TAAAGATTCA CTTCAAAACG TGTGTGTGATG
 211101 GTAAACATTT GATAATCAGC TCACAGAAGA GAAAAACCGT GATCTATAGC
 211151 ATTTCCTCAT TTCTGGA ATG TAAATACTTA TAATATGAGT AATTTTCAAGC
 211201 TAGTAACATG AGCTCAGTGA ATGTGTGATF GGGAAAAACT CTGCACTATT
 211251 GGCCTTGGAG AGCTTGTGTG AGDAAAGGTG ACTCCAGGAT CATDACCATT
 211301 CATATTAAAC AGAGASTAAA ASACCACTAC TAGGTTAGTG TGAAGTGTG
 211351 CTGACCTGG AGAGATGAG GTTCTTTAGC TGAAGTTGAA GAAACTAGG
 211401 CTGACAGGT GAGGCACTTT GTCTGTGTAT TTTATTTATC TCAACAATT
 211451 GTATTTTAGC ACACCTTATF GCATCTACAC TTTCTTTTCT TCTATATCT
 211501 GCTTCATGAC AGATTCTAAA CCGCATGAGC CCGTACATTT ACATTTCTCT
 211551 TGAATACCAT AGGTGCTGAA GAAATGCGAA TGGGAATGCT GGGGAAATA
 211601 ATGCGCAGGA AAGGAAGGTG CTGCTGTGTG TACGTAATTC TCTGATCTC
 211651 AACTAAATAG CTTCAATCAT AGCTCTCTAT GCGATGATC CAATGGAAGC
 211701 ATAACTACTT GGGACCACTC AGCAAGGCGA TACATGAGG TATTTCTCTT
 211751 ATTCAGGAGG GGAATAGTGA GGTAAAGAAAG TCAGCTGTGG CTTCTGTGGG
 211801 AGACTTCTAT TTTAGGACA TCAACACACA GTTCTGTCTT TTAATGAAAA
 211851 CTGTGTGTGA TGTGTGTGAT GTGTGTGTGT GGGTGTGATT GATGTGTCT
 211901 GCGCTTGTCT CAATCTCTTA TCGTATAGTG CCAATATTCT ATGTGTCTTA
 211951 TCGCTTGTCT CAAGATGAT GATAATCTTA TGTGTGTGT CTATCATGAA
 212001 CTGTAGGTCT AAGATCTATA CTGTGTGTCT TGTGTGAAA AAGTATGAT
 212051 CTGTGTGTAG AGATGAGTCT CTGTAGGAT AAACTGTGAC ATATATAGG
 212101 TCGAATACTA CCGAGGCAAT AAAAATATAA ACAATATCTT GTATTTTGA
 212151 GGGACATAGG GGAAGGTGGA GGGCAATTAT CTATGCAAACT TATATAGGA
 212201 ACAACAACAA AAGAAACAAA TATGTGATCT TCTGTAGTAT AGGTGTGAGC
 212251 TAAATGATGA GACCAATGAG GCAATAGAG GGGAAACAAA CAGATGTGAG
 212301 CTATATTGAG GACAGAAAT GGGATGAAAG AGATGATCAG GAAAAATGAT
 212351 TAATGGTTAG TAGGCTTAAT AGCTGTGTGA TGAATATGTC TGTACTATAA
 212401 AGCTGTATGA CACAACTTTA CTATGTAAAC AAACTGTCTT ATGTATCTCT
 212451 GAGTAAAACT TAAAAAAGAA AAGATTTCTT AAGTATGAAA GATGATCTT
 212501 CTCAACCCCA CATAGAGAGA CATGTGTGAA AGGATGTGCT AAGGATGAG
 212551 AAATAAGGC ATCACAAGAG CTCTTTGCTT TGAAGACCTT TCGTTGTGTC
 212601 GGTTAATAG TAACTTTCTT CTGTAGGAG GAGATGATGA AATTTCTTG
 212651 TGTATGGAT CAGTAAATCT AATTTCTCT TGTATGTGT TATTTTAGG
 212701 GCATATTGCA AAGTATGAGA AGAATTTATCT TGTGTGATTA CATGTATTT
 212751 TTAATAAATC TCAATTTAAA TGCAATTTAT GCGATTTGAA AAAAAAAT
 212801 GTATTTTCTT CTAAATAGA ATACTCTCAT GAAAGATTC TATCTAGATA
 212851 AATAGATACA CACATATTCT TCTACTATAC TTTAAGTGT TCTGTGTTT
 212901 GTAAAACTA TAACTGTGCA TTCTTATTT TTAATCAATT TTAGGTTTCT
 212951 AGTAGGGGCA ACAAGAGAAA AACTTTCTTA AATTTATAG TCAATAATTC
 213001 TGTCTTCTT CTGACTAGCA ACTCTAGGT GCAATCTCAG CACAGGTCAC
 213051 TGCAATAACT ATTAGGCTAA AGGAAAAATA AAGATATAGT TGTCTCTTA
 213101 AAGATTTTAA TCACTAGAAA AATTTGAAPG TTGATTTATGT CAATCATTC
 213151 ATTAGGCAAG TCTGTCTGCG CAATCAATGT AGTACAGAT GTCATGTGCA
 213201 GATTACTGCA GGTTCGAGC CAACACTGA GGTATGACAA GTTCTGTGAT
 213251 GATTTAAAT TAAATCTAT AAACTTTCTA TTTATTAAT TATGATAT
 213301 GAAATCAT TATATCTTA TAGCTTTAG TTTTATCTT ATTCAAT
 213351 ATTAAATAT GATTTTAAA TAACTTTAT TAACTTTGAA CTATGCTTA
 213401 TTTATGAT TATTATGAT AATTAATTA AATTTTGA TTAGCTTAA
 213451 TTTTATCTT GATTAATGT TTAATTAAT ATTCTATTTA AAAAAATA
 213501 TATTAATTTT GATTTGTGT CCAATGATTC AATTTTTTA TATATTAAG
 213551 TATGGCATTC ATAAATTAAT GTTCACTGG GTCAGAGATG CTATTTCTAC
 213601 AATCTCAACC TCTTTCTTAT TCCAGTTATA ATACAGACAG ATGGGCAATT
 213651 CAGTGGCCAA TCACAGACTT CTCCAATAGC TGTCTGTATC TGAATTTGA
 213701 AGCTTAAT TAACTATA TGCAGTGCAC TTTGTATGTT CTATATCT
 213751 GGAATATTT AATTTCTA TGTGATATG CTATGAAA ATGTGAGG
 213801 ATACATTTCA GTTCTCTCAC AGATGTAATC CAGATGGCTG AAAAGCCTAT

FIGURE 3, page 68 of 173

214251 ATTGACGAT AAGGAATATA GTTGATTTG TGTATGAGT GATAGGACCT
214251 ATTGACGAT AAGGAATATA GTTGATTTG TGTATGAGT GATAGGACCT
214301 TTTTATGACT GAATTGTTTT TGTAGACGG TCCAAATGCT ATCAAACTTT
214351 TTTAAATTTA CCAATATCA GACATGGCA TCACTATTT TTGCAAGTAA
214401 AATGAAGTTT TATCTTTCA TCAAGAGAA TAAATGAGT TACTTATGA
214451 GTTCCAGAAAT TCCAGTTTTG TCTCATGTT AACTCCTCT TTTTACDAA
214501 GTAGCAGTAT TTTCCATTTT CAAAAATTTG TTTTATGATT ATTCTAGTA
214551 TTGGATTTAT TTTATAGAT TTTCAAGATG ACTTAAATG STTATAAGAT
214601 GTTGTGTTTA CATAAGGCT TCATATGCA AATAAGGAG STTTGASTAG
214651 GTATTCTGTG TCTAAATATT TATTCTTTA AITAAACAAAT CCGCTGTTT
214701 GTGCAATTTT TCTCAGTTG TTTTCTTACA GTTAATGTTT TGTATTGAG
214751 AGTGGCACTG AAGCTGCATA CCAATAAAAT AGTAATATT TATTGAAAT
214801 TTAGCTAAAG AATTACATAT TAATATAAAT AAAATTTCC CACATCTACA
214851 GTACTGCAAG ATCTATAGTA ACTATAGCA AAGTTAAAC ATAATTTAAC
214901 TACTGTGCCC TAAGTCCTAG TCTGTGCA ATATACATT GAGGTAAAT
214951 CATTTTGAG GACATAATTA TCTAATTTTT TTTATTTTT CAAATACSTA
215001 GTAGCAATTC CAAAGCAAGA TTTCTAGAA GTCTTTTTT TACAGTTAC
215051 CAAAGACTCT TTTCTGCA CCAACACA TCTCAATCTA TATCTTTCA
215101 TTTCACTCTT CCGTAATTT TTTAACTAT TTTCTTTAT TATAGTTCT
215151 ACTTTTCAA TCTAAATTT ACAAATGAA TTTCTGCTT TTTCTTTT
215201 TTAGCCATTA TCTACCTG CATAAATA CTAGAAAG CT AGGCAATTA
215251 ACGCTGTGAG GTGAGTTGGA GTTGTGAGA CTCTTATATT CATATTTTT
215301 TTTGTGTTTA CCAATTTTA TTTTAAAT TTTCAATAA TACAAATTA
215351 CTTTCTTTT AAAATGGGT TTTGCTGCTT GGGCTTTAT GTTGTGTA
215401 GTAGCTGTAC CCAATAATG CTCTCTCTT TGTATTTCT TTTCACTCT
215451 ACTACTCTT ACTTACTCA AGTAAGAAA TAATAACAGG AAGCATGTCT
215501 TGAAGACTGA TACATACCTG GTTAAATCT TAAGTCTTT GTTGTGTTA
215551 ACTCAATATT CACAATACT TTTTGGGT AGGTCTTT TTTCTTTT
215601 TTTATAGATT AAAAGTAGA AGGCTCAAT GTTTAAATAT ATTGCTTAC
215651 CTATAGGAT GTTGTAGTA ACAGAGGCT GATTGGAAT TATAGATTTA
215701 GATTTAAGAG TGTACTTTGA TTTGCTATG TGTCTATCT GTTGAAGCT
215751 AGTACTTTG CAAAGGAGG CAGGTGATA ACTTATGCT GGGAGTTTG
215801 GAGCAACCTG ACCAACATG AATAACCTA TCTCACTAA AATAACCTA
215851 TTAGCCAGGT GTTGTGTTG ATGCTGTGA TCTCTGCTA TTAGGAGCT
215901 GAGGCAAGG AATTCTTTGA ACTTGGAG TGTAGGTGGA GTTGAAGCTA
215951 GATCATAGTA TGTGCTGCT GTTGGGAA CAAAGAGGAA ACTGCTCTC
216001 AAAAAAAAAA AAAAAAAAAA AAAAAAAGA GTTCAAGCTT AAGCACTATG
216051 CTTCTTGAAG CCACTGAAA CTCTTTTGG TGGCTAATA TCAATCATTT
216101 CTGAGCTGCT AATGGAATTA GAGGTAGAG GTTAGAGAG ACTTTTATAT
216151 ATTGGTAAAG GAGATAACTG GTCTATCATG TAAGAGTTA CTAATAATGA
216201 TTAAGTTTC TCATTCTGGA AAGATGTATA TGATAGCAG CATAAATTC
216251 GCAGATGATA TAGCTAAAT GAGTAAGGAC GTGTATTA CATTTTGGAA
216301 TACTAATTTG AATAGAATTT TGGAAATTTA CATAAGTGAG ACTGTATAAT
216351 AAAAAAGGG CATTGTCTTG TGGTAAATGA CAGCAGACCA CTTTACAGC
216401 ATGATTTCT AATGATTTT TTTTCTAT TTTTATTTG AAAAAATTT
216451 TGAATGTTT AAGATTTA CTCTATTTT TTTTATTTG CTTTCTTT
216501 TAAATTTT TATAATTA TATTTTCTT TATAATTTG AATGATTTA
216551 AATTTTTT TATGATTTT AATGATTTT TATAATTTG AATGATTTA
216601 ACTTTTTT CTTTCTTT TGTGATTTA TTTTATTTA AATTTTAT
216651 CATTGAGATG AATGAGTTT AATGATTTA GATTTGCTG TTAGGTTAG
216701 GTTACTATT TTTGAGAT AGTTTAGAG GATGATCAG TTTTCAAGT
216751 GATCTGCTG CATTGAGTCA TGAATGATTT GCTGTTGAC TCTTCAAGG
216801 AGACCATGTC CTGACTAAT GAGAGAGGT GGCAGGAGT CTATAGAGTT
216851 TGTATACACT CCAAAAAAT ATGATGACA TTTGAGGAA CAAAGAGGAG
216901 TATGATTTA CATATTCTT TTTTAAAT AATGATTTA ATTTTAAAT
216951 TTTTAAATG ATTATTTT ATTCTTTT TTTTAAAT TTTTAAATG

FIGURE 3. page 69 of 173

217351 TAAGA AGAAC TTTAATTACA TCCTCTTTT TCAGTCTCTG TCCATGATAT
 217401 TAATAGASCC CATATAAAAA GAAGTTCTA AGTGAATGA GTTATTTTTT
 217451 CTTGAATTAT AAAATTTCTT TATAAGAAAA TGTSTAATAT AAATCTTAGG
 217501 CAAATATAAA ATTATTACTG TTAGGTGAAA CCATATGAAA TTACTAATAC
 217551 TAAGCCACTT TACACTTACA AAAATGAAAA CAAAACGGAA GTTACAATAT
 217601 GTAGTATCTC TAGGCAAAACA GTTTTTTGGAA ATATAAACAT TTTAGAAATG
 217651 CTTAAAGCTG TTAATGACTG ACAAATATTT GCTCTAAGG AAAACAGAG
 217701 GTACAGGAAG AAGATATCTT CAAGTTTCTT AGATTAAATG TATGAAAAAT
 217751 CAGCAGGCCC TAGTAGAATC ACTGCTTTTG AAAAACAGAA TTCASATAAT
 217801 CCATAAAATT CTCAAAACCA CTTGTGACT GTTTTTT AGC ATAAAATCTG
 217851 TGTAAATCTT ACCATCTCA ACCATGAATA ATGTAGAAAT GTTCTGAAA
 217901 TAAAAATTTA GTTCTTTTCT TCTATCTTTG GGTAAATG GCTCATAGAA
 217951 TAGAAATATG AAATATTCTA TACTGCTCTT TTGTTTACA GAATAAAAT
 218001 CTTAAGAAAA ACAACACAAA AAATTCATGA AACAGGATGC ATGAGAGCA
 218051 AAACCAATAC TATAGAGACA AATTTCTATG CAGTAGTCTT TATTTAATTC
 218101 CTATTAACAT CTTCTAATAG TTTTATTATC TTGGGAATT TGTAAATGAG
 218151 ACTTTCTATT CTAAGGAGAT TTAAGTACAG GTTTTAAGC GATTTTCAAC
 218201 TGGCTTTTAT GTGGCAATA CATAAATAA AATTAGAAAA TTTATATTG
 218251 CATTTTACCA CTCTAGTAT TAAGAGACAC AATTTTGAAC CTAGAGAAAA
 218301 ATTGAGAGAT CAATTCATTC TTTTACCCCA TCCCAATAA AGGACAAAAAT
 218351 TGAAACCAAG GGAATTAAGT CCAAGTATCC TTGGGATCT GGTAACTTAA
 218401 CTATAATAT TCTGCTTAA GAGGAAACTA ATTAAATTC ATTTGACAC
 218451 TGACAGCTT TGAGGACCA TTAGTGATA CTGCTATTT ACCTCTAATA
 218501 AAAAAAGAGC AAAATAGTTA TGTTAGACCC AAAGAAACCA TTCTTTCTG
 218551 TACATGACAT TTTGATCAGG TGGCTAATAT CTTTTCTCTT TTTCTCACT
 218601 CTTGGGAAAA GCGAAGCTC CATATCATCA TADGAGGGA TGCTATGAC
 218651 CAGTTTCTGA TACTCTCTCC CATGATGTTT TATGTGAATG CCGAATGAT
 218701 CATTTCTATC AAGAGGCAAT AGCTCTCTCG GGCAGCACAC ACAAGATAT
 218751 TGTATATTTC ATACTATCT ATAGAAATGG CAGTTAATTC TTATGAGTT
 218801 TAATTTAAGC CTTCTGCAAG TTTCTAAAAA TAAGTAGGAG AATGANTAGA
 218851 ACAGAAATGT CTCAATTTG AGAATAGAAA TAGCAACTA TATATAGAA
 218901 GAGAAATTAG ACTGAATATT CTTTAAAAAG ACAGATGAGA AGTGGAAAA
 218951 GGAACCTACG CTTTAAACAG AATTTTATCT TTGTTATTTT TGGTTAATTT
 219001 TCTCATAAAA GAAATATTTC TACTACACAT GCAACTAATG ATGATACAGA
 219051 GAATCATGGA AACAGATCAT TAACAAATGT AAATAAATAA ACTGTGTTCA
 219101 ATTTTGTCAA AAGAAAAAGT AATGGTTACT TTGTATAGTG AACAATTTTC
 219151 CATGTAAAAA AAGGTGTTAT ATAAAAAGTT CAGCTCTGAG AGAATATATA
 219201 CAGGCCAATA ACCTTAAATC TTTTGTCTTT TCTATACAT ATACACTG
 219251 GCACAGAGTA AGTACTGAAT ATATACTTAC TGAATTTATT TAAAGCTGCT
 219301 GATTTAAAAA TATATGACCA TAATAATTCT AGTGGTTTCT ATTCAACGAC
 219351 TGAGCAAGTG GTACATAATC AATGTGCAAG AAAATGGAT GAGGCTAAA
 219401 TTATTTTCAA AACCCAGAG AAGTACTTAT AGGATTACAA TATCTGTTAA
 219451 AAGGTTCCAG CCTCTTTCT CTTCCCATG TTGGAACACA GGGAGTGACA
 219501 ATGTTGAGTG TGGCAGAGAA AAGGAGTGT CTTCACTTGA GAAGCAAGTC
 219551 ATGTTGTTCT GCTCTCTCAT TGGGCTGAG GGGCATGTTT TGAATTAATC
 219601 CTATGATATA GTTCACTTTT AATTTTCTT TTTTAAAAA AAAAAAAGA
 219651 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 219701 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 219751 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 219801 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 219851 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 219901 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 219951 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 220001 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 220051 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA
 220101 AAAAAAAGA AATTTTCTT AATTTTCTT TAAATATAA AAAAAAAGA

FIGURE 3, page 70 of 173

220501 AAATACACTG TTGGAATCAC CAGCATATAG GTGATTTTTC ATGGTTCTTA
 220551 CAATTTCTGG GCGAA GATGA CATTTGAATC TCTAAAAGGG ACGTTT GAGA
 220601 TATGCGGCTT GAAAT CTTTA ACTATAGAAT TTTATATATA TACATATATA
 220651 TATGAAAAAT TTCTCTCTAT ATTAAGAGAT TTTCTCTCTT CTATATATAT
 220701 TTTAATATAT AAAATAAAAA GATAATATAA AAAAAGATTT APTCTCTCT
 220751 CTATATATAT ATCTATATTT CTCTACCTAT TGGTAAATTT TTTATTATCC
 220801 TTTTITTTATA GATTTTITAT AGAGAGAATA TATATA GAGA TATTCTCTCT
 220851 CTCAACATA TATATCTATA TACCTGTAT AT TGGTCTG AGAACAGGAC
 220901 AGGTCTCTTA TTCACATAT TTGGGACTTA GCTCTCTAT TATAATTAGC
 220951 TCTTCTCTTA GAAATCTTG TAAAACTCA AAACTTAAA GGTCAATAG
 221001 TATTATCTTT AATCTAATA TTTATGCAAA TACTTATCT CTTTTTAAAA
 221051 ATAACTATA AAAATAAAAA AAACTTGAAT AATAATTAAT AAATTAATTT
 221101 GTCAGCTTT CTGTTTCTTA GCAAGCTCTT GTAGAGAG AGCTCTTAA
 221151 TCACTATCTA GCAAGCTCTA GATCTCTAG ATTAACTTCT AATTCTTAA
 221201 AAGCTATTTA GTTTTCTA AAGCTTAAAG AGAAGAGATA ATTTTCTTAA
 221251 CATTTCTATG ATATATATAT TCTCTTATTT ATAAAAAGG TCTCTTTGG
 221301 AGAAATATAT AACTTTCTTT TCTTTCTTT TTAGCTCTTG CTGCTACAGA
 221351 GGAATCTAT CTAGATTAAG CTGCTATCTG ATTTCTATTT TGGAGATTT
 221401 TCTAAGCTTA GAGAGACTAG GAAAGGGAAT TGGCTTTTCT CTTTTTCTTT
 221451 TTTAAGCAAT GATCTCTCTG GACCAAGGAG CTAATCTCTA TTGTTCTATA
 221501 CTCTGCTGAGA ATCTAAGGAG ATCTAAGTAC ATCTAAGAGA ACTTTTCTAT
 221551 ATTAAGCTAG CTCTTTCTCT CTGACTGCTG ACTTAATATA TCTAATTAAT
 221601 AAATTTCTTA TATTTCTCTA TCTCTCTCTA ACTCTCTCTA CTATCTATCT
 221651 AAGCTCTTTT TATTTCTCTG GACACTCTTT AAGCTGAATT GTATCATATT
 221701 TCTTAAGGCTG TGTCTCTTTT TCTTACTTAT TAAGCATGCA TTTCTACGCT
 221751 TACTCTCTTA ATA GCTCTAG ACAGCTCTGA CACAGATTTG ATGAAAAGTA
 221801 ATTTCAAGGAA TGAATTAAGT AATGAGAGAG CAGATGAGTT GAACTCTCTAG
 221851 TGGAACTCTT CCAAGATTAAT AATTTCTCTT AGGCAAGCAA CTTTTTCTAT
 221901 TCACTCTTTT CTGCTCTGAG CTAGAGGAGT AATTTCTCTA AGCAAAATTT
 221951 TTAAGCAAGTA TTTCTAAGAA GAATCAATTA AAGCAAGCATG AATAAATCTG
 222001 CAATCTATCT ATA GCAAGAG TGGCTTCTCT AATGTTCTCT AATCTAGCTA
 222051 ATTTATCTCT CTGCTCTCTT ATTTAATTA TGGCTTCTCT GGCATCTCTT
 222101 AAAATTAGCTT CATCTCTCTG GACAGTTTCT CACAGCTCTT CTAGCTCTATA
 222151 TCGAAATCTA GAGACTTTTA TTAAGCTAAT TCAATTTATTT TGAGGCAAGA
 222201 TCACTCTCTA CCACTCAATTT ATTTACTCTC ACAAGCAATA ACATAAATTT
 222251 CTAGAGATTA CAGCTAATGA AAAATAAGAG AAAAAATGTT TTTAAGCAAA
 222301 TACCTCTCTT TATAAATAT TAAAGTTCTA AATGCTAAT AGTTTATCTC
 222351 ATTTTCTCTA AGTAAATCTG GATATAGTTT TATTTCTAAA TCACTCTCTG
 222401 GGGTTTTTTT TAACTAGCTG ATTTCTCTCT ATCTATTTAA ATTAAGCTCT
 222451 TATCTAAGCA CTCTCTCTCT TCTCTCTAAA TGGCTCTTAA GATGCTAGTT
 222501 TCTAATAAT TACTCTATTT AATGATCTTT TAGGATCTAT GTTGTAAGAT
 222551 TCACTATCTAA GGAATCTCTG AATAATTTGA TTTTATCTTT CCAAGCTATA
 222601 ATAATACTGT CTGAAAGTAT TATTTCTCTG TATTTCTCTT TTACAAATTA
 222651 AAGAGGCTCTG AGA TAAATA AGAAGAGAAA GCGATCTCTA AAATCTCTCTA
 222701 AGCTCTAATA ATCTATCTCT TATCTATCTT AGATCTATTT TACTATCTAT
 222751 ATCTCTATTT TATCTAATAA AATAATCTCT TTTTCTCTT TTTCTATCTT
 222801 TCTCTCTA TATCTATTTA ATAAATCTCT TCTCTCTCTT AAAGCTAAT
 222851 TTAATCTCTA ATCTATCTCT TATCTATCTT TATCTCTCTT TATCTATCTT
 222901 AAAAAATTA ATAAATCTCT AAAAACTCTT TAAATCTCTA TTTTATCTCT
 222951 ATCAAGGCTAA AAAAAATCT CCAAAATCTA AAGTATCT ATTTCTATCTT
 223001 TATGGAAGAG TTTTAAAGAG AGCAAGAGAA TTAGAAAGAA ATATTCTAAA
 223051 TGGCACATCA TTTTAAAGAG GGCAGAGAT TATCTCTCTT ATTTAGAAAT
 223101 TTGATTTCTA AGCTATCTAT ACAGGTTCTT TTTAGATCTA ATTCAGGAAA
 223151 TTAAGAAATA TTTCTATCTT TTTCTCTCTT TTTCTCTCTT TTTAATCTCT
 223201 TAAAGCTCTT ATCTAATCTT TCTCTCTCTT AATAATCTCT TTTAAGCAAT
 223251 TTTCTCTCTT AGATAAGCAA CCACTCTCTT CCAATCTCTA ATTCATCTCT

FIGURE 3, page 71 of 173

223651 CTGCTGATCT GCCACGCTGG GCTGCCCCAA GTGCTGCGAT TACAGGCGTG
223701 AGACACACAG CCCACGCTGG TTTTGTAAAT TCTTGGAGCC AACTGATAAC
223751 CTGCCCCAAG TCTTCATCTC AGCTGTGCTT GTTCATAAAT TTGGGCTACTC
223801 TAATCAAGTT GTTAAATGAC TTACTGTATC TCAGATCCAG CAGTCACCTC
223851 GCGAAGCTTA AATTTACTT TTCTAGCTCT ATGAACAGAT TTGATCTATG
223901 TAGACTCTGA GCCATCTACA CTTCGATCTAT GCAGAGCTCG AGAGAAGAG
223951 AGAAGACGAT TATGCACAAA CTAAAGACAA CACTCTAGGG ATAAATGCGA
224001 TGAATGAAGG CTCCTCTTTA AAATTAATTT CTCTACTTTC AAGCAAGAAA
224051 GTAAGTGGCA TTTTGGAGAA AAAAATAGGG TACATCTTTA AGTAGAATAA
224101 AATTTTCTTT GTAATATAAA TTCTACAAAT CTTTCTATC ATTATAATC
224151 TTCCCTATGT CACAGAGAAA TCCACAGATG GAAGAAACCT TAATGAGCT
224201 TTATAGAATT TCCATTTCTC TCTACTTGT TTTTCATGCT GTACGCAAC
224251 CCAAGTTTCA AACTGGTGTA AAGAACTTTA GGATGAGACC AGTGACAAAT
224301 TTTTATAAAA GGAACAAAGG TGTAGGCACA GTTGACGGTG CAGAAAAAT
224351 GGAAGGGAAT TTAAACAGCA TACAACTCTG CCCACCTCAT CTAAGATGA
224401 GGAACAAAGA CTGAGAAAGT TAAAGTGTAT ACTTGCCCAA AGAAGACAA
224451 CTACTTACTG ACACACAAAG ATAAAGTCTT AAGTTTCTA AAGTTTCTT
224501 TACTTCTCCA GCGCGCGCGC AAGGTGGCAC ATTAATCGTG TGATTCATTT
224551 TTTCTTAAGT TAAAGATTTT AGTATTCCTA AGTCTCATCT CCCAAAGCC
224601 CAGTGTCCAG ATGAGGAAGG CTCTCTCATC CACTGTATTT TCAAGTTTCA
224651 TAAACATTAC AATGTAAGGG ACATAGGTTT ATTTAATACA TATTAATTAG
224701 ATGAGTTTGA AGTTCACTCT TTTATCCCGT GAGTCATAAA CTGAAGTTGG
224751 AAAAGGAGAT CAGACTAATG AGAAAAACAA AATCTGAGCT GATGGCTGAT
224801 GCGTGTGATA AACTGTACAC AATCAGAAAT CTTTGGTACT TTAAATAAG
224851 TGTGCTTGAT TTGACTCTCA GGAAGACTTT CGATTTGAAG GCAATTTACA
224901 AAACCATAGT GTAGAACTC ATCTGAGCAA TTTTCTATC TCTAATTAG
224951 TAATTTCTAA TTTAGTGAGA AATAGGACAT CATTTTGTTA ATTACTGAA
225001 AAGTAACTTA CAAGCAATCC AGGAGAAAAA TTGACTTCT CTTTCCAGTG
225051 TATTTAGAGA ATGATGATTT AGTAGATTTT TCCATGTGCA TTCATAATTA
225101 TAATTAGATT CATAAATACT GTCCAGAGG TAGGACATTT TGCTGATGAC
225151 AATTAAAAAA AATAGACTGA AACCAACAGGA CAGTTTCTA AACTCATTTG
225201 TTTACGAGCT TAAGAAATAA TAAAAATGAC TCTAAATTAC TCTGCAATTGA
225251 AAGAAATGTT CATAAATGAT AAGTAATTAT AATTAAAGCT AACAAATAGAT
225301 AATACTTTCT ATTTGTATAC TGTGTAATAT GATTCTTAAG ACAAGTGTAT
225351 GACTTGCAAT TCTACTTACC ATTTGAGAAC CCTAATAAAT TTTTAAAGCC
225401 TCAGGAGAAAT CTTACAAAGA ATGCACAAGC CACCCTGACC CCTGAGGCAA
225451 ATCTTAGCTA GATTTAAGTT GTTAATTGAA TCCCTTGACC AATATATTTT
225501 TAATGTCTTG TCTTTATGTT AAATAGTCAA CAGAAACAG TAATTGCTTA
225551 TTTATTTAGA ATGGACATAT TTGTAGACAA TGTTTGAAAT GCTAAATAAG
225601 CAAATGAAAA ACATACAGTA GTTACTCTTG CTTTACAATG TGGGAGGCAC
225651 AGCAGTTTTC TATGCTTATT AGAATCTACA TGTGAAATCT TCCCTGATTG
225701 GCTACAGGCT CCGTGCACAC TGATGCCTAG AAAACACTTC GTGCAGAGGT
225751 AGTACTCAGG GCAAGGTGTT CGAGTGAATG AAAACCACAA GTGATATACC
225801 TATCTATCTT TGAATATATTA AAGAGACAA ATTTGAAGTT TTGTTGCTG
225851 AAGAAATAGA TTTCTTAAAT ATCTAAGAA ATCTGAAAT TTAGCCTAT
225901 TTTATTTTAA AATCTTATTT TATAATTTT AATTTTAA TTTATTAAT
225951 AATTTATTA TTTATTTT TTTTAAAT TAATTAATA TTTTAAAT
226001 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226051 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226101 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226151 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226201 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226251 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226301 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226351 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226401 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226451 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226501 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226551 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226601 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226651 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226701 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226751 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226801 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226851 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226901 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
226951 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227001 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227051 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227101 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227151 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227201 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227251 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227301 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227351 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227401 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227451 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227501 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227551 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227601 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227651 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227701 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227751 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227801 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227851 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227901 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
227951 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228001 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228051 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228101 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228151 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228201 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228251 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228301 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228351 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228401 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228451 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228501 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228551 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228601 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228651 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228701 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228751 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228801 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228851 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228901 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
228951 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229001 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229051 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229101 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229151 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229201 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229251 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229301 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229351 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229401 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229451 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229501 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229551 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229601 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229651 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229701 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229751 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229801 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229851 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229901 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
229951 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA
230001 TATTAATTA TATTAATTA TATTAATTA TATTAATTA TATTAATTA

FIGURE 3. page 72 of 173

226801 AAGAAATTAAT TTGTCACAGG TATTAAGAA TTAATCTTTA AGTTATTTT
226851 AATFATTTT CAAAATAGTT GTTTTGAATT AGAATCCAC TAGAAATTT
226901 TAAAGATTC AGTTTCTTTG TACTCTGTTT AHTTGGCTTT CTCTGTTTAT
226951 APTAAAAAA AAAAAACTTT TCTTTTGGG AAGGATTATT TAAGTTTCTA
227001 CTTAATTTTT CTTTCTAGT AIAATTTTAA CACTGTTTCT GTCTGTTAG
227051 AJATAACCTT TCAAAAATGT AGCATGCATA TTTGTCTAIG ATTACCTTT
227101 CCTTCTTAC GTGTTATTTT TATCCAGTAT ATTTCTCCAA TCCCATTTTT
227151 TGCTCTTCA GTGAATAGTT APTATGTTT TATACCATCC ATGATTGTCT
227201 CGGATTATCT AAATTTTAAAT TATATGGT TTTTGTTTGT TTTTGTGTTT
227251 TGCTTCAATA CTTTTTGAAC AATACCTTTA GAGAAAAAAA AAGTTTGAAG
227301 TATAAGAAAG AACAGTGTAT TTTTGAAAGG GTCAATATTT TAAAAAGAG
227351 TTTTAAAGAG AAAAAATGAT GATAATTAAG GTGTAAATTT TGAAGAAAG
227401 CTAAATAAAC AAGCTGAAAC AACAGGCTTC GGGGATAATT TATTCCTAG
227451 TAACTAAGAT ATTTTGTGT GGTAGAAAT TTTTATTTT TGTGAGGATT
227501 TTTTAAAGTA AATCTTAGT GTTGTGTTT TAAAAATATA TATTTCTCT
227551 TGAATAAAA TTTTATGTA CAATATTTTC TTTTCAAGA TTTGAAGAATT
227601 GTCTACTGTT TCTCTGATTT TATTTGATTC TATCAATAT TGTATATGCA
227651 CTCTAATTAT AGTCTTTTGG AGAAAAATCT CTTTCTTTTC AGGCTGCTAT
227701 TGAATATATC TTTTGTACT TATGTTCTG CAGTCTCAGT ATGATATGAT
227751 ACTCTGATTT GTGATTTCTT TTTTATTTTAC TTGAATGAAA TTTTATGAGC
227801 TGCTTCAATC TGAATATCTT TGTCTTCTCA TTCTGAAAGG CATATGTTGT
227851 TGTTTTCTCT CTAATTTCTG TCAATATATA GAATATTTT TATCAAGAAGC
227901 CCAAGTAAAT ACATATTAAG TCTTCTTATT CTACTCTCTA AGTTCTTAA
227951 ACTGTCTATAT TTTTCAATTT GTATCTCTGT ACTAAATTA GAGATATCT
228001 TTCAAAAACAT AATAGTAAT TATTAGTGAT CTTTCTAGCT GAGAGATGTT
228051 GAGGCTGTA APTTAAAGTT TCTAGTGGAT TTTCTATTTT AATTTATATT
228101 TTTATTTCTA TAAATGCTTT TTACTTCAAA AAAATTTCTT TTTTGTGTGT
228151 TTCAATCTAT TTTTCTTAA ATCTTCAAAA TGTATGTAAG TATATTATAT
228201 ACTGAGTCA TAAATATAT AGTATTCATG TGGATTAAT TTTAGTTAAT
228251 CACTTTGCTG ATTCTTCTCT ATATATTTT TAATATGGA TTTTGAATTT
228301 ATGATTAGAA GGTCTCTATC TCTGGAATTC CTAAGATGTT TCAATTTCTT
228351 TTGCCAGATG TTCTGTATA GTATCAATCA ATATCAATTA TTTATGATAA
228401 TTTACTATTT GGGGTCTCTT AGAACCCTTA GAGATTTCAA ACTTGAACTT
228451 TAAACCTATA TGAATATAGG CTAATCTCTT GTAAAGCATTA AAAATGTTGA
228501 ATTTTTAGAG GAGATGTTT CTTGAGTCTA AGCTCAGGTC AAGATAGATG
228551 AGTTTACTTG TTTTCTCAAG TCAACCTTTC ACCAAGGATC TAATCTTTTA
228601 GGGATTCTGA CTTTGTGTGG TACCTGCTGA TATAAATCTA CATAACCATT
228651 AATATTCAAT CTTCTTAGTT GCAAGATTTG GCAAACTCTT GCAAGGTGTC
228701 CATGATGCTT ACATCACTTT TCTTCTGTA TTTTAGTGCA TTTTTCATAT
228751 TGATTCTTGA TCAATTTCTA TCCATTTTGG GAACCTCACTT CTGAGTCTAA
228801 AATTAATGTT TGTATATGTT TGTCTGATCT TCTAGGTTCT TTTGCAATCA
228851 TAGGGCTTTT CACATTATTT GATATACCAT AATGCTGAAA ATAGAATGTA
228901 AATTTCTATC TTTATATGTT TCATACGCTG TGTGATCCGG ACTATTCCAA
228951 AATTTCTATC TTTCTGCAAT CACTTTCTTT ATTTTCTTAA GTTCAATCTA
229001 TAAATTAAGA CAATCACTTT TCTTCTGTA TTTTAAATG GTTTTCTTAA
229051 TAAATTAAGA AATGGACTGT CATATGCTTT AATAGTCAAG TATCAATTTA
229101 TAAATTAAGA TTAGATTTCT AATTAATTTT TTTTCTCTCA GAGAAATAA
229151 TAAATTAAGA TTTTCTGAG TTTATATACT TTTTAGATTT TAAATTAAGA
229201 TTTTAAATTT AATTCAGAA ATGCTTAAAT ATGCAAAAAG AAAAAATAA
229251 AACTTTTTTT ACTCTTGTTA TTAATGTTGT CTCTTCCCAT AGCTCATGTT
229301 GTTTCTCAGT TTTAGAACAG TAACTTAAGA CCAATCCCAT TCAGTTTCTT
229351 TTTAGATTTG TGGCTTCAAT TAATCCCTTT AASTAATGTT CACTCTGTCT
229401 AGTAAAGACA CATCTCTTAA TATTTTATAT TTTTAGCTC ATTATCATAT
229451 TTTAAATTTT TTTTAAAT GTCTATGAG TATGAGAGAG CAGAGTCTAT
229501 TTTTAAATAA TTTTATAGAG AATTAATAA TTTTAAATTA CAGTTTCTT
229551 TTTTATGTTT TATTTATGTT AATTAATAA ATTTCTTCTT CACTTATTT

FIGURE 3, page 73 of 173

229951 TCTGAGTCTCT TCTGTCTCTCA TTAACCTAAG ACATCTTTCC ATTTTGTCCA
 230001 ACASTTGTCT TTTCACTGAA CTGCGTTTTC ACATTTATTS TCTTASA AA
 230051 CAGTCTTTT TGGGATATTA TTTAATACCT TCTATJACAA ATCTAATTT
 230101 CTCACATCTT TTCTCTCTCT ACAGGCGGGA AAGTAGGTA AATCTTCAST
 230151 ACTTAGAGAG GTGAAAAAGA AAACACATTA CTAATTTTCA GAATATTAAC
 230201 CCASTTATAA TTTCAGTATC TTAGCAGAGA TGAGATAAAT GAAGATAAMA
 230251 ATAGCTAAAT CATCAGTCTT AAGCTATATC TCCTATTAAG TAGATTATGA
 230301 TTTTGCTTAC ATAATAATTG GAJAAAAA GAGCTAGGAA ATGGAAAAAT
 230351 ATTTTAATAA ATTTGTGTCT ATATGTAAAT TAAATAAATT ACAGAATCTT
 230401 TGTCTTCAGA AATACACATA CAAATACAA GTTCTAACTA GTTTATTTT
 230451 TTGCTCAAT GGCAGAAATG CCTAGGATG TAGTGAATTG AAATGATAAT
 230501 CTAAATCTCT AGGCTTTTGG AGAACAAGAG TTAATAGTAG CTCTTTCTTG
 230551 AAGATGCTCT GAAAGCTAT ACTAGGCTGG AAGAAAAAAA AATCTTCATP
 230601 TAGCTGTCTT CTAAGGAAAC TGTGCTACAT CAAATTAATA TGTAATGAG
 230651 TGGCCAGCTG TTCAAGTGA GCTTGGCTGC CCAATCTCCA TAACTCTCA
 230701 GGTATATTTG CTATAATTA CTCTTTCAAA AAGTTAAGAA CAATGCTCA
 230751 ATATGATGTT GAATGAATAT ACTAGATCTT GTTGAATTA TTCTGAATTT
 230801 TGGCTAATGT GTGACTGTCT CTCTTTTCTA GTTGAATCTG AGGTGCAATT
 230851 TAACTCAGCT GTGTTATGTA AAGTGTCTAG TGAAGAGAAAG AGACACACAG
 230901 TAAGTGTCTT CTCTCTCAAG CTCTCTATTT TCTTAAAGGT AGTTAGAAAT
 230951 CTGAACCTCT CTAGAGAGAG CCTAGTTTGG GCTTAAATTA GACTTAATTT
 231001 AGATTTGCTT TCAAGCTCTT CCTGAGGATA AATCTCTGCG AGSTTTGCTC
 231051 GAGGACGAGA CCGCTCTCTA GAGGTCTATG CACTCTTAGA CCGTTTCTCT
 231101 GCGCTCTCTA CCAATCAAA TGTGAGCTAT TCAAGATCTG CTATCTCTG
 231151 TGTCTCAGTC TCTTTTGGGA GCGTCTCTAG TCGCAAGTTT CCGCTCTCTT
 231201 TCTCTCTCTT TCTGCTCACT CTCTCTCTAA AAAAGAGGAA AAACTAGTAA
 231251 GAAGTTTGGC TTAACCTTAT TTATGCTCTT TTAAGCTTTT CTCTCTTAAC
 231301 TAACTCATCT TGGCTCTGGG CCAAAATACG TAAATGCTCT TCAAGTGAAG
 231351 ACTTAAAGG AATATCAATA AAAAGGTTAG ACTTAAATGAT CTCTGAGGCG
 231401 CCTCTCTGGG ACTGAGTTCTG TGACTTCTATA TAAAGCAAG AAGCTAAGG
 231451 AAAAATCTAA TACAGTCTCT TAAAAAATCC CTAAGTATT GAAATCTCT
 231501 ATGTATGAAA TGTCTGAGTG GACAGGCTCT CAAAAAAGA AAAAAAGAAA
 231551 AATGCTATCT CTAGCTCTAA CAACCTTATT AACTGATTAT GAAGTATAGA
 231601 AGAAGCTCTAT GCAAGAAAG TTAATCAATA CTGAGAAAT CCAATTTTCTC
 231651 ATTTATGATA AAGGAATCTT TACTCTGTG GGGCTTTACT TATAGATGAA
 231701 GTAAACAATT ACAAGGAGAC ACATGGGGA CATAGAGGAT ACTTTGGETT
 231751 TGTGTAGGAA AAGCACTCAA CCACATCTCA TAGGAGAAAG CAGAAATGCTC
 231801 TGTTTTGAAG ATGTGATGTC TCAGCAAAAG CTGAAAAAT CCGTGAAGAG
 231851 TGTCTGTGTG TTGGGGGGGT GGGGCTGTCT GTGTGTGTGA CTCTTTTGT
 231901 AGAGGCTATTA TCAAAATTGAA TCAAGGGGA ATAATGCTCT GTTATTATAA
 231951 GTGTATTCTA AAGGGAATAG CAATTGTAAT GGTCTAGAG TTGCTGAAAG
 232001 AGCACTCTCT TTTTAGGCAA CTAATAGTAG TTCAGTCTGG CTGGAAAGCA
 232051 ACTAAGTAGC AATATAAAAG CATACAGTAA TGTACAGTTC AAGTATGCTC
 232101 ATAGAAAAAT AGTTAATGCT CAGGTCTATG AGGTAGACAG AATCTCTCTG
 232151 TTTCAATAT TAAATAGAA CTAAATAGAA ATTAATAGAA CTAAATAGAA
 232201 TGGAGAGGAT AGGATGAAAG CTAAATCTA TTAATAGTAA CAATCTATCT
 232251 AAGGAGAGG TTTAAGAA CTAAATAGAT CTAAATAGAT CTAAATAGAT
 232301 AATATCTCTA AAGAGTGAAG ATTTGAAAG TTAATAGTAA CAATCTATCT
 232351 GGCAGCTCTA AATATCTCTA TTTCTCTAAT CTAAATAGAA AATCTATCT
 232401 TGATAACTCT ACAAAGTGAT ACTTCTCTG CCAAGAGAA GAGAGAGAAA
 232451 TTATACTAAG TTAGAAATCT AGAGAAATGC TTCTCTAGTA CAGAACTGCG
 232501 CCAACATTAT CCAAGCTAT GGTCCAGATC AGAAATGCTC AGGTCTACATC
 232551 CCAAGTTTCT CTATGCTCTT GTCTTTATAG TATGAGCTAA ACCTACTAAA
 232601 GAAATTTTTT TTTGAGTTTA AAAGTACTGA ATTAGCTTGC TGATAGCTAA
 232651 TCACTATAT AAACCTCTCC ACAGAAATCT TTTCTGCTCT GGGGCTATCT
 232701 AGTATCTCTA TGGTTGAAT ATTTGTTGTI GTGCTCTCTG TGTGATATG

FIGURE 3, page 74 of 173

236251 TTTTCTTT TG TTAATCAATA GGTGTCTAAG GATCTTGA TCAATAGG
236301 AAATATACAA AGGAGGGGGA GATTTAGAGG GGAAAAA AAA GA GTTAGTT
236351 GGGGTATATT GCCTATAAAG TATATGTGGA ATGSGAAAT T TATATGCAA
236401 ATGTTAGTTT AAGAATGAAA TCAGAGCTTA AGAAATGGAT CTGGGAATCC
236451 TTAAGAGCTTA GGAGGTCATT GAAACGGTGG GATTGGGTGG GAATACTAA
236501 GTAGANTGGC AATAGTCTAT AAATCTATGC CAGTTTTTCA AATGGAAAT
236551 TATTAAATTT TTTTAAATTT TAGAACTCCT CAACAATGCA TTATTGAAC
236601 GTATTGAAAA TGTGGGAAAA TAAFAAAAGC ACAGAGASTA GAATTCTAG
236651 AATATTGATA TTTATTTCTT ACTACCTTCT TTTTCATCAC GAAAGCACT
236701 TAACCATGTC TAAGCAACAA TTTTATTCCT TAAAGAAATA ATGAAGCCAA
236751 GAGGCATAAT TGGGATAAT TGGTAATTTT TCTGTAATC AATTGAATTT
236801 TAGATAGAAAT TGGGATATA AAGCAGAACT TCTCTAGCT AAGTTAGTAA
236851 ACTCTCTTTT TGAATGCTTT TGCTGCTAAC ATATTTTTAT GTCAATCAAA
236901 GAGCAATTAA AACACCATCT TTCTTASTA ATGSAAGTTG CAGTACATTA
236951 TAGATTTGAGA TTTTATTTTT AAGGTCTATA TTTAAACACA ATTAGGTATT
237001 TGTCTACCAT CTATAACAAA TGAAGCAAT ACTGCAATA TTTTATAT ST
237051 TTTTAAATGT AATATASTA AASTTATTA AGGTATAGTA AGCTAGCTT
237101 TGAATTTTGG AGCTAAATCT TTCTCATTTT GGAGGAGAAAT ACTCTAGGA
237151 CAGTGTTCAA GCACATATTA CATATAAAAT GGAAGAAAAA AGTAGTTTAA
237201 ACTAGATAGG ATGTCTTTTG AAAGTTGATA GTTTCATTA TTTCTTTCT
237251 TTTTCTTTT ATGTCTAGTT CTCTGGGCTA TGTCTCTTT TGGGTCAAG
237301 TGATCTTCTC ATCTCAAGCT CTCTGATAGG TGGGATAAGA GGTGTCTTCT
237351 AGCATACCCA GTTTTACTTT GTTTTCTAGA AACTGTCTTG TTATATTT CT
237401 TGAAGAAAGC AAGAATAATA TCTCTAGAAC CACTTTTTTG AACTTTCAAT
237451 AAAATTTTGA AAATATACAA CAGCAAAATG TTTGCTATAT AATAAAAGTA
237501 TAGTATTTAT ATGGAAACAA AAACAATCTT TCAAAATCTA GCAAAATTTAA
237551 GAACAAATGA GAATGAGGGA ACAACATTTA TACCTCTACA GAAACAGAT
237601 TTTTTAAAT TAAAAAATAT TATAAAAGC AACTATTTT ATTTTATTGG
237651 CTCATAATTT ATCTCTCTGG AATCTATATA TCTCAAGGTG TAATTATAAT
237701 CTGGCATACA TGTCTGACA SCAATATTA TAGTTCACTT TATTTATATT
237751 TTTGAGTCTC AGAATCAGG ATAAATGAAA ACTAGTGAGC CTACACCTCA
237801 AAAATCAAG AATTCTCTGG AAAATCTAAT TCTCAAGCTG TAATCTTCTC
237851 CTGTTTCTGT CTGAAAGTAT CTCTCTAGTA TGAAGCTTGA CTAGTCTCAAC
237901 CTTGTCTAGT CTTCTCTCTG ATTTCAAACT AAACTCAATG TTATTTCTGCA
237951 GAAACATTAC CAAAAAATAT AAAATCTCTC CAGCTCAAG CTCTCTCTCTC
238001 TACCTACCTC CTCTCTCTC CTCTCTCTCA CATTTTTTAG TCTTAATT CT
238051 GAAAGACTGA CTCAATCTCT TTCTCTTATG ACATTTTCTA ATATCTAGAA
238101 TGGCTTTTGA TATTTTCTAG TTTTATCTTT ACTGCTTATT TCTCTTTTAC
238151 TGGCTCTCTT TTATTTCTTG ATACAAAGC ACAGTTCAAT ATAATATGAA
238201 ATGATCTATG GAGTTATAAA AACTTCAAAA AAAAATCTAT AACTAGTATT
238251 GGAATATTAT AGATAAATCT GTTAGGAGG TCTTTTGA AAACAGAGTG
238301 TTAGCAGAGA CTTGAATAAA GTGAAGCTAGT GATTCTAGTG AAGGTCTAGG
238351 CAGAGCAAAAC AGATGTGCAA AGGCTCTCTG ATGSCAGCCA TGGACTTGGT
238401 CTATTTTAGA LCAGAGAGCT GCTCAATTT CAGTCACTGA GAAAAAGAGA
238451 AAAAAAATA GTTTAAAAAT TATCTAGCT CAATTTAGTT AAGTTTCTCT
238501 AAGCTCTAGA GAGAACITAA TATTTAGTAT CTCTCTCA CA TTTCTAAGCT
238551 TCTCTAGATT TGAAGATCT TTTGATTTT CCAATCAAT AATATCTCT
238601 AATTTTCTT TGAAGATTT GTTAAATAT TTTTAAATTT ATTTAAGCT
238651 TAAATCTTA TATCTTTT TCTTATCTT TTTTCTTCT TTTTCTTCT
238701 GAGAGAGAGC TATTGCAAAAT TCTTTTCTAG GCTCTCAAT CAGTCTTAA
238751 GAAATTTACT GGATCTTTT CTTCACTAT TTGAAAGTAT GTAGTAAAC
238801 AATATTAAT TGATTTTAT TACAAATAT CTTATATAGT TCTCTATGT
238851 GGTCTCTCT CAACTCTGAC TCAACCTCTC TCTCTGGA GACCTCTAT
238901 AATTAAGAG ACATTTCAAG TCTTCTCTC TCTCTCTCT AACTIATAG
238951 CATTGAATTT CTCTCTCTC GTTCTATAA TTTCTAATA ATTTCTTTT
239001 AATTTAATTA TAACTACTT TCACTTTTAT TCTTAAATTT AATTTAATC

FIGURE 3, page 76 of 173

239401 TTTAA TATA GATTGAATAA TGGCAAGATG ATTAAAGATT ATTATGTCTT
239451 TGATTTTAA GATTTCCATGTA AGAAATGTTA AAAATAGCAA AGTAAGCANN
239501 NNNNNNNNNN NNNNNNNNNN NNAAGTACTT TTTTAAATTT TGGAAATCTA
239551 AAACAGATAC AATATATTCA GATGATTATT GTAAATGAA TTTGAAATCTA
239601 AATGCAAGAA ACCCTGCACT GTGSAATTTA AATTTGATTT TTAAGTCAA
239651 AAATTTTCAAG TCTGCTGATA GTATTTGCTG CIGTTATCTA TAAAGCACTG
239701 ACCAGCTGTA ACCCTCAAGC TTTTCATAAA TGGAGCATCT TGAAGCAATC
239751 ATTAACCAAT CACATCTCTC TCAAGTACG TAGGCGAACA AAAATTGAGT
239801 TAGGTATTGT TCTCTCAAGA GTATGATAT GAACAATATG AGTTAGCTTT
239851 TTTTCTCTCT TCTTTTCTCT TAAGTTCTTA TTGAATCTTA GAGTAAATTA
239901 AACTTTTAAA AATAATATAG TATAAGTATA ATAAATAACA TATTTTATCT
239951 GTTTCTTTTC TCTCTATCTG AGACATCACT ACTGATGGA ATGCTCTTTC
240001 CCAATGAGCA TGAATGCAAT CTCAAAATTT CTAGTAGAGC ATTTAAGGCA
240051 TCCAATTCGA ATCAATCTCT ACTGCAAGTA AAACTACCTT GGCATATCTG
240101 ATCTAGGCAA ATTTCAATTT TACAATTAAG AAAACAGGGA CCAAGCACTA
240151 GTTCAAACTG GTTTAAGAA AAGCTCTGTA ACCCTGAAAT GGAATTTGTT
240201 TGTATTTGAA GTTTTAAATTT AATGCAAGG TAAACCTTCT AGCTATTTCT
240251 CCCCATAATC CAAGTTCTCT AACTGAAAGA TGTATGTAGA TCTGTTTAA
240301 AGAGAATCTA CTTTGAAAGG CTGCTCTCTT TAGCATTTCT ACTGTCAGCA
240351 AATATATAGA CCAATTTAAG GTTTTCTCTT CAAACCAATTT CTTTTATTA
240401 CAACAGAGTA AAATGTTCTT AATACTGAG AGAATTTCTG CTGTTTAA
240451 AATCAATAGA CTTGTAAGAA TGGCAGAGAC AAAATTTCTC AATCTCAAT
240501 TATCTGTTT TTTTATGAT GTATCAATCT TAAAGTCTGG TGGCTAATTT
240551 TGTGAGTAAT CTTAAAGGAA GATGCTGGAC CTATTTGTTG TGAATCTCT
240601 GGAATGCTT GGTCTTATTT AATTCAATGA CTTCTCTATTT TATTTTCTCT
240651 TAAATGCTAG TGTAGCAAT AATGCAATCA CCAAGAGGTA AAAATATAT
240701 AGCTATAGCA CTTTGCTCTT AAGCTGATAA CAGCTGCTGT TCTGCAAGGA
240751 TTAGTCTCTG GTGCAATTAAT ATCTCTGTA TGTGATTGAT TACAAGCTAG
240801 AGAGATGCTT CATTAACTTT GTCAAGTACA TCACATCATC AGGATGCTG
240851 AGCACTTGA AAGCAAGGAC TAGAATTAAG AATGACCTTA ACTGCTTGA
240901 AATGATTAAT AAAAATATGA AATTGAATTT CTTACAATCA ACTATGCAAG
240951 AAAATACTAA ATAGAATCTT AACTGCAAT AATCAAGTTT GAATGATG
241001 AATTGAGGCT AGTCTGCTT GTTAATCTAG GAATGTAAT CTGCTCTTCT
241051 GTTCAATCTG CTTCAATGAT TGAAGATTA GCATAATTTG GTATGCTACA
241101 ATTAAGAAAA GTAGATTAAT TGGCACTGTA TAAATGTAC AATGTAATTT
241151 TTGTGAAACA TACTATATAA TTTTGTAAAT AAACCAATGA AAAAGTAGAT
241201 TAATCATTAAT GTAATATTTT AAAATAGCT TATCAGATAC ATAAATTAGA
241251 AATAATGAAA ACCTGAAAAA AAAAGGAGAC CACATGTAGA TAGAATAAT
241301 AATAATTTAC AAGAGTAGGA AATAATAAAA GTTAGGAAAG ATTAATAGAA
241351 CAATTTGGAAT ATTTTGAAT ATAAAGCTCT TCAATGCTCA AAGGAATGAA
241401 AATAATATAT ATTAATAGAT ATCATAGAGA ATTAAGGTCA CAATTAATTA
241451 CAATGCTCTT TGAATGCTAT AATTTCTAAT TTGATTTTCA AACATTATTT
241501 CATAGAGGAA AGCTTACACT GTTAACCTTAC AGCTTTGCTT GGATCCAAAG
241551 GTGCAAGACA GTTAGAATAA TGTATCTCTG TAGGAGGAAA TACTTATGTT
241601 AATTTTAAAT TCAATCTCTG AATGAGGCT AATTTTGAAT AATTTCTCTG
241651 TTACATTAAT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241701 ATTTATTTT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241751 TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241801 CAGGCTGCTC TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241851 CCAAGTCTCT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241901 CCAAGTCTCT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241951 AGCTTTTCAA GCAATTAATTT ACAAATTTTAC TGTTTCAAAT ATTATCAAAT
242001 TATAATATTT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
242051 TAAATATTTT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
242101 TATAATTTT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
242151 TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT

239401 TTTAA TATA GATTGAATAA TGGCAAGATG ATTAAAGATT ATTATGTCTT
239451 TGATTTTAA GATTTCCATGTA AGAAATGTTA AAAATAGCAA AGTAAGCANN
239501 NNNNNNNNNN NNNNNNNNNN NNAAGTACTT TTTTAAATTT TGGAAATCTA
239551 AAACAGATAC AATATATTCA GATGATTATT GTAAATGAA TTTGAAATCTA
239601 AATGCAAGAA ACCCTGCACT GTGSAATTTA AATTTGATTT TTAAGTCAA
239651 AAATTTTCAAG TCTGCTGATA GTATTTGCTG CIGTTATCTA TAAAGCACTG
239701 ACCAGCTGTA ACCCTCAAGC TTTTCATAAA TGGAGCATCT TGAAGCAATC
239751 ATTAACCAAT CACATCTCTC TCAAGTACG TAGGCGAACA AAAATTGAGT
239801 TAGGTATTGT TCTCTCAAGA GTATGATAT GAACAATATG AGTTAGCTTT
239851 TTTTCTCTCT TCTTTTCTCT TAAGTTCTTA TTGAATCTTA GAGTAAATTA
239901 AACTTTTAAA AATAATATAG TATAAGTATA ATAAATAACA TATTTTATCT
239951 GTTTCTTTTC TCTCTATCTG AGACATCACT ACTGATGGA ATGCTCTTTC
240001 CCAATGAGCA TGAATGCAAT CTCAAAATTT CTAGTAGAGC ATTTAAGGCA
240051 TCCAATTCGA ATCAATCTCT ACTGCAAGTA AAACTACCTT GGCATATCTG
240101 ATCTAGGCAA ATTTCAATTT TACAATTAAG AAAACAGGGA CCAAGCACTA
240151 GTTCAAACTG GTTTAAGAA AAGCTCTGTA ACCCTGAAAT GGAATTTGTT
240201 TGTATTTGAA GTTTTAAATTT AATGCAAGG TAAACCTTCT AGCTATTTCT
240251 CCCCATAATC CAAGTTCTCT AACTGAAAGA TGTATGTAGA TCTGTTTAA
240301 AGAGAATCTA CTTTGAAAGG CTGCTCTCTT TAGCATTTCT ACTGTCAGCA
240351 AATATATAGA CCAATTTAAG GTTTTCTCTT CAAACCAATTT CTTTTATTA
240401 CAACAGAGTA AAATGTTCTT AATACTGAG AGAATTTCTG CTGTTTAA
240451 AATCAATAGA CTTGTAAGAA TGGCAGAGAC AAAATTTCTC AATCTCAAT
240501 TATCTGTTT TTTTATGAT GTATCAATCT TAAAGTCTGG TGGCTAATTT
240551 TGTGAGTAAT CTTAAAGGAA GATGCTGGAC CTATTTGTTG TGAATCTCT
240601 GGAATGCTT GGTCTTATTT AATTCAATGA CTTCTCTATTT TATTTTCTCT
240651 TAAATGCTAG TGTAGCAAT AATGCAATCA CCAAGAGGTA AAAATATAT
240701 AGCTATAGCA CTTTGCTCTT AAGCTGATAA CAGCTGCTGT TCTGCAAGGA
240751 TTAGTCTCTG GTGCAATTAAT ATCTCTGTA TGTGATTGAT TACAAGCTAG
240801 AGAGATGCTT CATTAACTTT GTCAAGTACA TCACATCATC AGGATGCTG
240851 AGCACTTGA AAGCAAGGAC TAGAATTAAG AATGACCTTA ACTGCTTGA
240901 AATGATTAAT AAAAATATGA AATTGAATTT CTTACAATCA ACTATGCAAG
240951 AAAATACTAA ATAGAATCTT AACTGCAAT AATCAAGTTT GAATGATG
241001 AATTGAGGCT AGTCTGCTT GTTAATCTAG GAATGTAAT CTGCTCTTCT
241051 GTTCAATCTG CTTCAATGAT TGAAGATTA GCATAATTTG GTATGCTACA
241101 ATTAAGAAAA GTAGATTAAT TGGCACTGTA TAAATGTAC AATGTAATTT
241151 TTGTGAAACA TACTATATAA TTTTGTAAAT AAACCAATGA AAAAGTAGAT
241201 TAATCATTAAT GTAATATTTT AAAATAGCT TATCAGATAC ATAAATTAGA
241251 AATAATGAAA ACCTGAAAAA AAAAGGAGAC CACATGTAGA TAGAATAAT
241301 AATAATTTAC AAGAGTAGGA AATAATAAAA GTTAGGAAAG ATTAATAGAA
241351 CAATTTGGAAT ATTTTGAAT ATAAAGCTCT TCAATGCTCA AAGGAATGAA
241401 AATAATATAT ATTAATAGAT ATCATAGAGA ATTAAGGTCA CAATTAATTA
241451 CAATGCTCTT TGAATGCTAT AATTTCTAAT TTGATTTTCA AACATTATTT
241501 CATAGAGGAA AGCTTACACT GTTAACCTTAC AGCTTTGCTT GGATCCAAAG
241551 GTGCAAGACA GTTAGAATAA TGTATCTCTG TAGGAGGAAA TACTTATGTT
241601 AATTTTAAAT TCAATCTCTG AATGAGGCT AATTTTGAAT AATTTCTCTG
241651 TTACATTAAT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241701 ATTTATTTT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241751 TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241801 CAGGCTGCTC TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241851 CCAAGTCTCT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241901 CCAAGTCTCT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
241951 AGCTTTTCAA GCAATTAATTT ACAAATTTTAC TGTTTCAAAT ATTATCAAAT
242001 TATAATATTT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
242051 TAAATATTTT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
242101 TATAATTTT AATTTTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT
242151 TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT TTTTCTCTCT

FIGURE 3. page 77 of 173

242551 TAATTGAAGG GGTTTTTCTC ACTTCGTGTTT TTA TTTTCT GAAAAAGGT TT
242601 TTTTTTTGCA AGATTTCACF CCGTTACTAT AGTTTAGGTT ACTTACAAAA
242651 GAAAAATAG ATGGTAACAT AACACATTAAC TTATAGGCA TGGAAAAATTA
242701 ATTATTGAAA GTCTCTTCAG AACCCACCTA GAGTTTGAAC ACCTTAACCT
242751 CTCTTAAAG TGTTCGTTT GGTAGGTTCT CTTTAAAT GAGAGAAAT
242801 TTTTATCTC TGTATCAGC TATCTCTAAG GTTGGAAAA AACGGAATA
242851 AATAAGATA TAAATGCAG TAAAGGGGAA GTAAATAG AACAGATTGG
242901 CAGGAATAC TGGGATTTAG GGGTASAAAG ATTCTCTGG AAATAGTGTA
242951 GAAACAGAAC TCAAAATTTAG ATTTGATAAT TTACATAATT GATTCAATTAC
243001 ATATTGAAA ATACTCCAT TTTCAATTT TAGAAAAAA IFAAGTTTTC
243051 AAAATTTTGT TTTAAATTT ATTCTTATT TTAGTTGACA ATAAATGAT
243101 ATACTTATGG GATACAACTGA AATGTTGAG TGCATGTATA GATTGTGGAA
243151 TGAGAAAATC AGGTCAATGA ACTTATTCAT CACCTTACAT ACTTTTCATT
243201 CTTTTGGAGT GAGAACATTT AAAATCCATT CTTTAGGCA CTTTGAATA
243251 GACAGTACAT TGTATTAAT TATACTGACC TTGCTGTGCA ATAGATCACC
243301 AGAATTTATT CTTCTTAAGT GAAATTTTGC AACTTTTGGC CAACATTCCTC
243351 AGCAAGGCT GGCATTTAGA CTTTCATACT TCCGAGGCT CTGATAAGCA
243401 CCATTCTACT CTCTACTCT ATAAATTTGA ATTTTTAGAT TCCACATATA
243451 AGTGAGACCA TGTGATATTT GTCTTTCTTG CTTGGCTTAT TCCCTTAGC
243501 ATAAATTTCT TTAAGTTTCT CCAATTTTCT AGAAATGATA GAATTTTCTT
243551 TGTGTTTAGG GCTGAACAGT ATTTCTATGT GTGTATATAC CAGGTTTTTA
243601 ATCAATGAT CATCGAGCAT TTAGTTTCT TCTTATCTT AGCTGTTSTA
243651 AATGATCTCT CCGTGAACAT GGGAGGAGAG ATATCTCTAC GGTATATGCA
243701 TTTCATTTGA TTTGATGTA TCACTCAAAA GTGGGACTGC TGGATGACGT
243751 GGTAAATCTA TTATTTCTTT ATGAATTTCC AACTGTTTTT CFAAAATGGA
243801 TGTACTAATT TACATTTCTGA CCAAGAGTGT ACAAGGCTCG GACTTTTGTG
243851 GACATCTCTA CAAAAGCTTA TTTTACATCT TTTTAAATAA CCATTTCAAA
243901 AAGTGTGAAG TGAATATCTT TTGAGATTTT ATTTTGTATT TCCCTGATAG
243951 TAGTGTHAAG CATGTTTTGA TATTTCTCTT GGCACCTTGT ATGTGTTCTT
244001 TTGAGTAAG TTTATTCAGG TTCTCTGCTT GGTATAATT GGTATTTTG
244051 TTTTCTTGT TTTGAGTTGT TTGAGTTCTT TGTATATCTT GGTACTAAC
244101 CTTTACCAG ATGGAAGT TTGCAATATT TTCTCCCAT CCAATAGATCA
244151 TGTCTTACT CTATTGATTT TTTCTTTGCT TGTGATAGG CTTTGTAGCT
244201 GCATGTAATC TCATTGTTCT ATTTTGTCTT TTGTTGTCTG TGTTTTGGG
244251 GTCTTATGTA AGAGATTATT GATCAGATCA AAGTCATTTA GATTTTCCC
244301 TATGTTTTCT TATAGAATTT TATAGCTTCT GGCCTTACAC TTAAGGCTTT
244351 AATTCATTTT GGTGATTTCT TGTGTAAAGG GTGACATAGT GGTCCAATT
244401 CATTATTGTT CATGTAGAGA GGCAGTTTTT CCAACAACAT TTAATAAGA
244451 GACTGTCTCT TCTGCTTGT GTGTCTTTGG CACUTTTGTC AAAAAATGA
244501 ATGAGCATA GGTATATAAG TTTATTTTGG GGTCTCTCTG CTATTTGAT
244551 TAGTTGATTT TCTGTTTGT TTGCTCAATC CATGCTGCTT TAATTGCTAT
244601 AACTTGCTAA TATTTTGTGA AATGAGGAG TACAATGCTT TAAATTTGTC
244651 CTTTGTCTCT AGATTTGCTG TGGCTATCTG GGTCTTTTGT AGTTCCACAT
244701 AGAATTTCTT GTCTGGAAG TTTTGAATGA AGTCTTCTAT TGGATTTTG
244751 ATAGGCTTTT CATTAATTT ATAGATCTCT TTGATAAGA TGAATTTT
244801 AATAATTTTA ATTCTCTAA TCAAGGACA CAGAAATTTT TTCTCTTAT
244851 TTTTCTCTT TAAATTTT TATCAATTT ATTTTATA TTTTGAAT
244901 ATAGATTTT AATTTTGA CTTAAATTTA ATTTTATA TTTTGAAT
244951 TATTTTCTT TAAATTTT TTTTCTTGA ATTTTATA TTTTGAAT
245001 TTTTAAATTA TAAAAATCTT ATTGATTTAT TGAATTTTGA ACTTTGATTT
245051 TTAATCAATT TATTTGCTG TTCTAACATT TCTTGTGGA GTATTTAGGG
245101 TTTTCTATAT ACAAGATCAT AACATTGGCA AACAGAGATA ATATCAATTT
245151 TTTTCTTCT GTTTGATGCT CTTGTATTTT TTTTCTTGA CTAATTTGCT
245201 AGGTAGGAT TCTGAGCAGA ATGTGAATAG AAGTGTGAG TGAATATCTT
245251 TTTTCTTCT CTTGATTTAG GGGAGAAAGT TTAATTTT TACTATTTAG
245301 TATGATTTCA ACTGTAGGCT TGTATATAT GGTCTTAT TATTTGAGAA

FIGURE 3. page 78 of 173

245701 AGCTCTGTGAA AAAGGTGCTT GCTTCTGTTT TGCTTCTGCT CATGATTGTA
245751 AGTTTCTTGA GGGCTCCCA CCAAGTAAT TCTTTTATTA TGAATCAAA
245801 AAACCTCTTT CGTTTAAAAA TTACCCAGTC AATTGATTAT ATGAGTAA
245851 AAAACTTTCTT TCCCTTAGAA ATTAGCCAGT CTGGGGTGTG AWAATSCGCT
245901 AATAACAGCA TTCAATGATT TACATATGTT TAAATATGCT TGAATCCGCG
245951 GGATAAATCC CACCTGATCA TGSTGAATGA TCTTTTACCT ATAATGTTGA
246001 ATATGCTTTG CTAGTGTAAAT TGCTCTTTGG TACTGTGTTG CGATTGCTTC
246051 TGGATCCCT CATGATAGC AAAATCCAGA TAAATCAAG TTTTCTATAT
246101 AAAATGGTGT AGCATCTGCA TAAACCTAT ATATATC TCGATATACCT
246151 TAAATCATCT CTAGATTAAT TTCAATGTAA ATACTATGTA AACTGTTGTT
246201 ATATTGTATT GTTCAGSAA TAAAGACCA AAAAGTCTGT ACATGTTTAA
246251 ATAGACACA GACAGGAT CCGCTTTTTC TCAATTATTT TACAATATAC
246301 AGTTTACTTA ATCTATGAT GTGAAACCA CAGATATGAA GCGTAACTG
246351 TSTTTTTTAT GACTGTTATA TCTTTATTCA TCAGAGATAT TGGCTATAT
246401 TTTTCTTTCT CTCTAGTATT CTCACTAGT TGTGTTATTA TACTAATGCT
246451 GGGCTGCTAA AATCAATTCG GAAATAGTCT CTGTTTTTAA TTTTCTTAA
246501 TGTAATTTTA GGTAGGCTAT AATCTCTTTT CTTGCTCTG AACTCAAGC
246551 CCTTCCGAC AGGAACTTTT CTTTGGTTG GGGATGGGGA GAGTAGGAAA
246601 TGAGAGAGAG AGAAAGAGAC TGATAAGAC TAAAGTAGT TAAATCAATT
246651 CTATCAAGCC CTGCTTTTCA ATGATATACT TACTGCTTAT TTAGTAGGCT
246701 GTCTGTGAGG TAAATAGAA TGTCTTTTAA AAGAGGCTTG AAGGAGATG
246751 CCTCAGCTTT CCCCCAATTC TGAATTTGG GGGCTTCTAT AAAATTTCAA
246801 GTTTAATTTG SAAGGTCTAA TTGAAACTA TGCTATGAAA CTAAGGAAA
246851 GTGTTCCGAG ATGAATGAAG AGCTGCTCCC AAAAGTCTAT GGAAGATAGC
246901 ACTCCCTGCA CAAATGATG CTAATAAGC CATCTCTTAT AGAAGGATT
246951 AGCCAGTCAA CTGCAAGACA GGAAGATAA CATAGAGTG AATATATGCA
247001 ACATTTGAAT GAAATGAGA AATAAGAGTC CAAATAGCT TCAATGAGTA
247051 TTTCTCTTGA GTCCCATGTC AGTCTGAAA AATTTTCAAA ATCTTTTCTG
247101 CAGTATGAT TAGGATAGT CAAGCTGTAG AAACCAAAAT GCTAAGGAAA
247151 TCATCTTAT TGTCTTTAG AAATGAGTTT TTGCAAAATA CAAATGTTCA
247201 AATAGGTTCA TGGCTGATT ATTTCTTGTG ATTAATTATC AAGAGTGAG
247251 ATTTGACCTG AAAGCAGGAA AAAAAGATG AATAAAACAT ATTATACAT
247301 ATGAGAAATG GCGATTCTTA TTGCTGCTTA CATATTGCA GCTTCAATAA
247351 CCAAGAAAGG ATATGGAAGG TGGTATTICA GATGACATA CAGTGTCTTT
247401 TCTGGAAGGA AAGAAAAATG TTGCTAGCTA CAATGTTTAA ATTGGGTGAC
247451 ATTTTGTGTA AGATTGACA AGGACTAGAC TAAGATTGAC TGTGTTGTT
247501 GTGAGCATTT GGAATGCTT AATATGCTTA CTTTTCAAGA GAGGCTATGAC
247551 TTTTCAATTA TACAGAAAC CTGTCACTTC TGTCTGCTTA TATTATTATC
247601 CCACTATATC AGAGAGGAA AAGTGAACCT ATTTGATTGA AGCAAGGCAA
247651 ATTCTTAAAC ATAACTTCA CTATATATGC CAGAGATGAG TAAATTAAGG
247701 CCACTGGGCT ATATCAGGCT TACAGGCTG CCGCTTGTCT TTTATATAGC
247751 CTGGAACATA GAATTTTATT AATATTTTGA AAGAGTTGCT AAAATATGCA
247801 TTATGAAATG ATAGAGGCT TGTCTGGCTC ATAAGTCTTA AAACATTTT
247851 ATTTTTTGG CTTTGGCAGA CATATAAATG ATATAGTTCT TTAAGAAAT
247901 AATTTAGATG ATTGATTATG ATTAAGTAA ATATTTAA TAAATATGAA
247951 ATATATCTAT CTGAACCTAG AATATGAAA TATGCTAG AGATCTATCT
248001 ATTTTAAATG TCTTGTATG TACTTAA TATTAATTA TATTTTAA
248051 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248101 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248151 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248201 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248251 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248301 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248351 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248401 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA
248451 ATATATGAA TATTTGATA ATTAAGTAA ATTAATTT TATTTTAA

1000 bp scale bar
1000 bp scale bar

FIGURE 3. page 79 of 173

248851 TTTTCTTTTT CCGGTCAATT TACTAGAAAG GAAATAAAA GAGGATTGAA
248901 TTTTATGCA TTCTGATGA SACTTTTGTG ATTACTTCAA CATTTAAAT
248951 CTAAAAATTT TTCTCAGAAA GTTACTAACT GCAATATAT AATAAGCTGT
249001 CTGAAAGCAC CAGAGCTAGG AATSTAATCT CCGAGAGAAA GAAAAGGAAG
249051 TGTAAACAGG AAGAACCGGT GTATTGACTC TTGAGTAGAA AAATACATCA
249101 ATAAATAGGA TTAAATTTTA AAAACACAGA AAAAATATAT TTGTAATTC
249151 TAAAAAASA ACATATTTCA ATTATTAAT TAATTTAAT AACAAATATT
249201 CTATAGACTT TTCTGAGAG TCAAAATATG ADAGTACCC ATTCTTGAGA
249251 TAGTAACATG ATGAAACTTA GGAATATATG CAGCTATGA GTTACTGAGA
249301 GTTAAAGTAA CTCATTTAGC TACTTACGAG CCAGTCAATG CAATTAATT
249351 GCAAGACTAT GAAAGTATTT GCPATTTATC TTATCTTTG CATGCGGTCT
249401 GTTTCTTTGT TTCTGTCTCT CAGAAAATAT GTCTGTGTTT
249451 AATTCATAGG GATAAAAGCT GSAATTTCTG AATAAATA GTTAAGATG
249501 ACTCTAGCTT GTTTTTTTTT AAAAAATAA ATAAATATT AGCTTTTTTA
249551 TATGCTTTTA ATATGCTGCG CAATSTATA AGCTGTAGG AGAAAAATG
249601 GAAGGAGAGT CTGTGAGCTG TTAAATCAC ATTTCTATCT GATAAGACAC
249651 AAAAAATAA AAAAAATAA AGAAATCAT AAAAAATAA GAAATGTGCT
249701 ATAGATAATA AATTTGCTGA TGTATAATA AGATAATCTT GTTGAAGAAAG
249751 GTGAAGTGGT TGTCAAGGGA AGATTTCTCT GGGAAAGGG TTTAGCTGAG
249801 CCTTACAGCT CAGAGGAGAG AGAGGAGAG AGCACTCTCT GAAATGAGT
249851 CAGAAAGGAA GAACAGGAG ATCTCAGAG GCACTGCGG TTAGTATATC
249901 CCAGGAACAG AAAATTTATT ATAGCTTAAA CAGTGTGAG TTAGGATGGA
249951 TGTCAATGTA TAGGAGGAG CAGGCTATG GTCTTATAT GAGCAAGAT
250001 TTGAATTTTA TTCTTATAT ATTGGGAGAG CCTTGAAGGA TATTAATGAC
250051 ATGCTCTAAT TTACATATTT AAAAAATACT CTAAGAGATG TGCTGTGAAA
250101 TAGCTTAAAA GAAAAGGAGA GGAGAAATGG AGATATTAAT AGTCAAGCAG
250151 GCTACAGATG GTACTCAGTA GGTAAATGGA GGAAGATGG AGATAGTGG
250201 CTGGGCTTGT TACATATTTT AGAGCTTAAA TTTAAGAGAC TTTCTGAGGA
250251 TAGATTGGAZ CAGGGAATTT GTCTTATAA TTTTGAAGAA TAATAAGAA
250301 TAACTCTAAA GTATTTGTCT TGAGCAAGAG GAAATATAGA GAATATGCT
250351 TTTCAATTTAT TTCTCTTGTG TATTAATCTG GCTCTAGGT CCGCTGTGAT
250401 ATGCTCTGTA TCAGCTTCTC AGTCCAGGTC AAGTTAGGTA TGTATCATCA
250451 AGATGCGCAT CACTTTAATC TCAATCTTTT GTTAAGCTA AATGTCAAT
250501 CTCAATGAGC CTTTCTGTTT TTCTCTCAA TCGAGTTTCT TAAATACTTT
250551 GCTCTAGCTC TTTCTGTCTT GCAGTGAATTT CACTTCTCA AGCTTCAAGGA
250601 GGTGCGGCTC TCTCTCACT CAGATGCACT GGAATGAATG GTTATCTCAA
250651 GGTGTCTTCT TTCTCTGCTT GCTGTGCTTG GGAATTTCTT AAAATCTGGA
250701 TTTAGCTGGG ACAAACATAT TTTAGGCTGT ATTCTACAT AAAAGGCTCT
250751 AAAAAACCAT TATTTTCCAG CTCTCTGATT CTAAATTTGT ATATATCTTT
250801 TCCCTCTCTT GCGGCGGACT TGCAAGAGGA GTTACTCAGT TAGAGCGGAA
250851 CTAGCATTTT GTCTCTTAA ACACACTTCT TGAATTAAT TAAATAATC
250901 TAATTTTCCA TATACCATGG ATGCTTTTGT TTTCTGTGGA TTTTATCTTG
250951 ATAACATCAT TCCTCAATAT GTCTGCTCTT ACCTTAATAT ACTGACTTTA
251001 AGAAAGCAT AACTGTTTAA GGAAGATAC GTACCATGG ATATCTGAGA
251051 GTTAATTAAT AACTTATTA GTGAGCTAG TACTTAAAT ATCATCTTA
251101 TTTTATTAAT TTTTATTAAT AAGGAGGGA AGTAATTAAT TTTAAATTT
251151 TTTTATTAAT TTTTATTAAT TTTTATTAAT TTTTATTAAT TTTTATTAAT
251201 AATAATTAAT TTTTATTAAT AATAATTAAT TTTTATTAAT TTTTATTAAT
251251 AATAATTAAT TTTTATTAAT TTTTATTAAT TTTTATTAAT TTTTATTAAT
251301 CTTTAAAGCT CTCTCTGCTA TCTATGATT ATGCTTGAGA TATTAATGCA
251351 TGTGAGAGTT TGTCTCTAC AAAATGCACT TGAAACCTC AGTCTTAAAA
251401 AATTATTCAG TTTCTGTTTC TTTAAACAT CTGGTTTGGG AACTTTTTTA
251451 TTTGTTCTAC TTTTATGACT ATAATTTACT AATCTTGATA ATGAGAGATA
251501 TATAATTAAT AATAATTAAT CATTTTAT TCTTATTAAT ATGAGAGATA
251551 ATTAATTAAT TATAATTAAT TTTTATTAAT TTTTATTAAT TTTTATTAAT
251601 TATAATTAAT TTTTATTAAT AATTTTAT TTTTATTAAT TTTTATTAAT

FIGURE 3, page 80 of 173

258301 CCAGGGACAA ATAGGATGAG TGAGGACAGG CAGGTTGAGG AGAGTTGAGT
 258351 TCAAAGGTGA GTGATGAAAA ATTAGATTGG AGAGTTGAGG GGTGTATATG
 258401 TCCCAGGCTT GTGCTACAAG TAAAAGGGGA GAAAGTTTCA ATGAGTTTAT
 258451 GGAATAGSAG AGTTTCTGTA AGGAAAGTTT CTGCTAGTTT TAAAGTTTAT
 258501 ATTTTGTGTT TTATTTCTGG TACTGCTTAC TATTAAAGGG TAAAGTTTAT
 258551 GAATATCAGT CCATATAAAA GASTATGGGA TAATGCTTAC TGGGTTTATG
 258601 PATATCITAA TGAAGGACTC GAGAAAAACC TCTTCAATTT TAAAGAAAGAA
 258651 TACCTGCTTG TGATTAAATG TTTTGGGAG CAAATTTGAG TTTAAGATTA
 258701 CCAAAAACCA AACTAGGTGG ACAGCTAAGT CCAAAAGGAG TCTTACATCC
 258751 TATTTCAGCA GGGGTAATCT TACCTTTTAA GAATCAGCTC TCTTTAAATC
 258801 TCAGAGTCCA GGGGGAAGTA TTTTTCAGCC ATGCTTATCT AGGCTGTGTT
 258851 AAATCCGACT TCACTTTATC GAGCTATTT TGCTTGGAAA CTGGGCTTGT
 258901 GCTTGGAGAT CTCCCGAGGT CTCTCTGAG ACASTAGCT TATCATCTTC
 258951 AAATGAGAAG TTTGAGGGGG AGTGCAGCTC AGCAGTTTAT CTTTTTAAAG
 259001 TTAGTATCTT ATCAGTACTT TTTTCTTCTT TGGTGGGTG GGTCCCTTGG
 259051 TACCAADAAJ ATTTCAGGGA TCTTTCTTGA TTAATTCAGT TTTGTTAACT
 259101 GFAAATCAAA CCAATTTTCA ATAAAGTAAG ATATATGACA TTGTCATTTT
 259151 ACTCTTGGGA TTTGATATCA CATTTTCTCC AATAAGTCCA AATATTACCC
 259201 AATGAAATAG ATATTAAATT TTAGTCACTC TAGTGACCTA ACAGGATAAC
 259251 ATTATATATA AACCTTTCCA TTTTCTTAA GAAATCTTCC ATTTAAATAC
 259301 ACTTTTAAAA AAAAACTTCA AAGAAATGAG AGTTAAAGAA GGTAAATTTT
 259351 CATGCTTAGA AAGGACAAAG AGTGTATATA AGCTCAGATG CTTCTTTTAA
 259401 TAATAAGGTA ATAAGTCTCT AGCTCAGAA GAAATGAGCC CAAATAGCTT
 259451 GTTAACGGAT ATAAATAAAC AATGATCTCA TTTCTGCTCA CTTGTTATAG
 259501 TAGTGATGCT TGTATGTTTT AGCTATCTAT ATATTTCATG CAGTTCTGAA
 259551 AATAGCTATC CATTTGTTGT TGAATCTAT AACTTTGTTT CATTAATTAC
 259601 GATACAAAA GTGCAATTAT TAGCAAAATA AGTGTGAGAG TATGCAATGC
 259651 TAGTTTTTAA AATTGAGGTC TATCTGCTCA TTTGTTTCAG TCTGTCAAGG
 259701 ATAAAGAAAG CAGCCACTAT TATTGAAAT CAAAAAGGAA ATTCTTCTGC
 259751 TCAGAAATGA GGGAGATATC CAGGATCTCA TCAAAATTTA CTTGCTGTGA
 259801 GCTTGGCAAG ATTACCCACT ATGCTGACTT CCAATCTTCA AAACTTTGGA
 259851 AAATGCTGTT GCTGTATAGC CTCTCTCTGA GTTTTAATTA GGGTAAAGCA
 259901 ATGCTAATTA ATACTTCATT GACCAATCTT GTGTGAGCT AATATATTTT
 259951 TTAAATTTTA CCACATTTCA AAAATTTTGG TTTATTTTCA TCTTTCTCT
 260001 ATATCAADCA GACCTCTTGA CATCTGAGGA CTATTTCTAT CTAGGAATTA
 260051 TGAAGTTTTC TCTCTACATG TTTCTGAGTT CCAACAGGGT TGCTCTCTCT
 260101 GAGTTTGTGG CTTCTATTTT CTACCTCAAA CCAAGGACTC TGTCTCAACT
 260151 CCTGCACTCT GCTCTGCTAA AAGAGTTTCT CCAGTGACAT CTGTTAGGGT
 260201 GGGATTGTTT GATCTGTTCT TCTCTGAGT CTTCTTTCTT TTAACCCAAA
 260251 CAATTAATTC CTCATCCAGG ACACATGATA TTTAGAGGGA AGCTCCTTTC
 260301 TACAACAACC CATGAAGATC TTGTATTTT AAAATGTTGG ATTGAGTTGC
 260351 ATCAAAACAA ATTGAAGTGA ATTAAATTGA CTTGAATGCC ACAGAAAGGA
 260401 CTAAGTATTA CAAAATTGAG TGGAAATAGG TAATTTTGTG CTGTGTCCCT
 260451 CTTCTTTGAA GCTCTGCTTC TTGATATCTT TATAGTGAAG CCAATGTTTA
 260501 TTTCTTGAAG TGATAATTTT TTGATATCTT TTTTCTTAT TTAAGCTTTT
 260551 TTAGTTAGAA AATGATCTAT AAAATTAATC TTTTGAAGG ATATCTAATG
 260601 TTTCTTATTA ATTTTCTTAT ATTTGTAAGG CCAATTAAGG AATTTTCTT
 260651 GCTTGTGTTT GAGAAAGAA TTAATTAAT TTAAGTATG GAAATTTTGT
 260701 TTTAAATTTG AATGATCTTA AATGATCTTA CCAATTAAGG GAAATTTTGT
 260751 TCAGTTAGAA AGAATCTTCT GACTCTGAGG TATGATCTT TTAGCAGAAAG
 260801 CTCAAAAAGG TCATAGAGTT GCATTTCTCT CATATTTTTC AGACAAGAGC
 260851 CTGGAGTACA TGTGACCTGA TCTATAGTCA AGCTATTTT GAAAGAGGT
 260901 AGAGAACTAC TATAGGAAGT ASCAACAGCT ATTAAAGAG GTGTCAACAT
 260951 TATTTTCTCT AATTAAGAA AACAAGTTAT ATTCTTAT TAAAGTTGAT
 261001 TTAAGATTA TTAAGAGT ATTTTGAAG AATAAGAT TTTCTTAT
 261051 GTAATCTTCT ATTTTAAGAG TTTCAATTTT TAAATTTTCT TAAAGAAAAA

1000 1000 1000
 1000 1000 1000

FIGURE 3, page 83 of 173

264601 TTGAAAGAGG GTTAAGAGAG CTGGAATTAT TCTTCTCTTT TGAATCAAGA
 264651 CTTTCTAATT TTTAAGCTCA AATAGTGTGA AAGAAAAAAA GTTTAAAGAA
 264701 CCAAAATGTTA GTAAAAATCA AGTTAGAAAA TTTATCAGAG GATTTCAATT
 264751 CTTCAATCA ATTAAAAAATA AATACAAGTT ACTTGGTATG CAGCCATGAT
 264801 CTTTCTTAT TCAAGAGATTA GATGCTGCTA TTAAAAAAT GCACTTTTGG
 264851 CAAATTEAAG CTCTCTCAAT A TCAATGGGT TCAGTTGTAA ATCAAAACCA
 264901 AATTATGTGG TTCTCAAGG TGTATATGA AAAACCCCAT TTTCTTCAAG
 264951 TGAGTACGCT CTCTGAAAGA TGTGTTTAAA TGTTTCCAGG ACTGAAATAA
 265001 TAAACTSTTT GGTTAATTT TACAGCTACA TGCAAACTG CGAAATTAAG
 265051 TTGCAAAATG TCTCTGTGAG CPAATTTTAA ATTTTAAAA CTAATCTACA
 265101 ACTGACATAA ACATAATCTG CTTAGTTCCA AGCAATTAAT AGTTTCTG
 265151 GPTAATTCAG CAATAGATGG TGTGTTTGG AAAAGGCAAT GCAGTTACAT
 265201 SCAGAAGAAC TGAAGAGATA ATAGTGGCTA GAACCTGAAA TTTATGTTT
 265251 CBTGGGAAAG TCACTCTCTA GGGTTATCAA GGTGAGCTGT TGTTCTGGT
 265301 AGAAATATAA CATAGTACGA TATAACATTC AGGAACATG GGTGTAAACA
 265351 AGAGCCAGCT AGCCAGGACA GCATTTGAAA TGTGAGATG CAATAAAGT
 265401 TAAGGGGGTG ACTCAACTGG CAGCATAGCA GAGTGTGAG AATGCTGGA
 265451 GGCAGGTGGG AAGGGAGCTG CATGCAATG TGTATACAG TAACAAGATG
 265501 CCAGACTTTA GAAAGAGGCA GACTAAAGTC CCGTGTGAAA GAATATTCTA
 265551 GAGGATCAAG TTCTAGGCTT GGGATTGAGA CAAGAAAGCT AGAATAGGCT
 265601 AAATGCGGGA AGAGAAACAT GATGAGGAAA TAAGGACAGG GGGCAATTAT
 265651 TCTACTTGAT CTACAAGGTC AGGCTCAAACT TAGCAGCAGA TGTGATTGGA
 265701 TCGTGTGTCT CCAAAATGAA GGTCTTACAG GTTCTCAAG CTCTCATGGA
 265751 TGGTCAAAAT TCCAGTTCTA GATCTGCTGT CAGGCTGCTT GCAAGGTGAG
 265801 TTAGCTAGAG AAGAGGGGCT TGGGGCTGTG CAGAGGCAAG AGCTGCTATG
 265851 AATTCTTTAA TTTTTCACA ATTAATGAAA CATTGAAAGA GTAAAAGGCT
 265901 CAGATGCCCA ACAGTTCTCA TAGCATTTGA TACCATAGG CAAGGATAGC
 265951 TCATACAATA TTTAGTATTC TCATCTAAT GAGCATTTAG CACTCCAGCT
 266001 GAAATACATG TGATGATAAG AAGCAAAAT AGTTAATGTT TGACTTTTGT
 266051 TACACAACCT GATAATCTG TGTAGAAGAA AGAATGTGCA ACTGAATCTC
 266101 CAAAGGCAAC CTTTGTGTGA TGGGCTGCTT GGGACTGACT GTGGCTTCTC
 266151 TGCCACCACC CAGCTTTGCT CTCTCATGCT GTAGTCTGCT AGGATGAGCT
 266201 CACAGGCTCT TTTCACTCTC AGCTTTTAA ATTTTATTC CAACTTCCAA
 266251 GGGATGAACA CTACTAAGA ACCCATGGGA TTGTTCTCTT AGAAAGTGCC
 266301 AGTGGCATTC ATAACATTGA ATACTTACAT GAAAGCCCAA AAATCTCTGG
 266351 CTCTAAGCAG TTTGAGAAAG TAATTAAGT CTATTAAGTA AATAGCTTAC
 266401 TTTTTCAGT GCATTTATGC AACTGTATTA AGAGACATA ATAGACAAC
 266451 ATTACCATTC TATTGAGCAG ACTAACAGGT ATATAATTGA GTTTTGTTC
 266501 TTCTCTTTTT TTTTTCACAA AGAAGAGAAA ATTAATACTT TAAAAAATAC
 266551 TAAAGTTTGA AAGAGACTAT TAAAGCCTA AAATAATGAG TGGAGACAGG
 266601 CTTGTCTGTC AACTTGAAGA ATGGCTAATG AAAAGTCAGA ACTTACAGCT
 266651 CAAGTTCTCC CCAAGGCTGC ACATTTGGCA TTGTATTAAA CATTTATGTT
 266701 TATTAATGTT CAGTGGACAG TATGTACTTT GCAGTGTCCA GTGACAAATA
 266751 TAAAATTTA TCTCTTAGAG ATGAAATAA TCTTATGTT GTATTAATTC
 266801 GTTAAATGAG TATTATGAG ATTAATGAT TTTAATGAT TAATTAATTA
 266851 TATTTAATAA AATTTTAAA CTCTAAAAAA TTACTTACTT AATAGATTTC
 266901 ATATAATTT TATATATTA AATTAATGCA TTAAAAATTT GTTTAATTTG
 266951 TTCTTTTAT AATATTTG TATTTTAT AGTAATGAT GTTAAATGAG
 267001 ATTCTTTT TGTAAATA TATATGAA TCTCTTGA TATATTTAA
 267051 ACTGTGATTC AAATATCTCT GCATTTTCTT TAAAAAGTTG AAAATTAGAA
 267101 GCTTCTCTGCT AGTTGAATGT ATAAATATAT TTTGTAAGG AGTCAAGTAT
 267151 ACCATATTGA ACATAACAAC ATGTTGGATA AATTTTCCAA AGCAGTACTT
 267201 AGAATAATTT TGTAAATTA TTGTTAAATA ATTTCTTAAT TTAGATCTAT
 267251 GGAATATAA ACACACACA AAAAAGGTGG CCGAAATACT TTTGCTTACC
 267301 TCTTATTA AAGAAATAA TAATGTTT TAATAATATA TTAATAAAT
 267351 AATATCTTA TAAATCTT AAATATGTA TTAATAAAT TTTTGAAT

267401 TTTTGAATGCT TTTTGAATGCT TTTTGAATGCT TTTTGAATGCT TTTTGAATGCT
 267451 TTTTGAATGCT TTTTGAATGCT TTTTGAATGCT TTTTGAATGCT TTTTGAATGCT

FIGURE 3. page 85 of 173

267751 TTTTCTGCA CATTTCACAA CATTTCCTGA GGAATTCATT TCAGGGTATA
 267801 TTGAGATCAA GTATAAAAAAT TATTAGGCCA TATTTGTAAT TTCATGACCT
 267851 TTTTTTTTAA GTGTCTTATT ATTATACTTT AAGTTTAAGG GTACATGAGC
 267901 ACAATGTGCA GGTTAGTTAC ATATGTATAC ATGTGGCATG CTGGTGCCT
 267951 GCAATCCCTA GCTGGTCATC TAGCATTAGG TATATCTTTC AATGCTATCC
 268001 CTGGGCTCTT CTGGCAGCTC ACAACAGTCC CCAGAGTGTG ATGTTCCAT
 268051 TCAGGTCTCC ATGTCTTCTC AATGTCATAT TCCACCTAT GAGTGAGAAT
 268101 ATCCGGTGTT TGGTTTTTTG TTCTTGTGGT AGTTTACTGA GAATGATAT
 268151 TTCCAATTTT ATCCATCTCT CFACAAAGGA CTTGAAGTCA TATTTTCTA
 268201 TGCTCTGATA GTATTCCATG GTTATATGTT TCCACATTTT CTTAATCAG
 268251 TATATCATTT TTGGACATTT GGTCTGGTTC CAAGTCTTTG CTATGTTAA
 268301 TAATGCCGCA ATAAACATAC ATGTGATGT GTCTTTATAG CAGCATGAT
 268351 TATAGTCTTT TGGGTATATA CCAAGTAATG GATGCTCTG CTCAAATGT
 268401 ATTTCTGGTT CTAGATCTCT GAGGAATCCG CACATGACT TCCACATGG
 268451 TTGAAGTAGT TTACAGTCCG ACCAAGATG TAAAGTGTCT CTTATTTCT
 268501 CAGATCTCTT CCAGACCTG TTCTTCTCTT ACTTTTAAAT GATGCTCAT
 268551 CTAAATGGTG TGAGATGCTA TCTCATCTGT GTTTTGATTT GATTTCTCT
 268601 GATGGCCAGT GATGATGAGC ATTTTCTCAT GTGTTTTTTT GCTGCTATTA
 268651 TCTCTCTCTT TGAGAACTGT CTCTTCATGT CTTTCACCCA CTTTTCTAT
 268701 GGTCTCTCTT TTTTCTCTCT CTAAATTTGT TGGAGCTCAT TATAGATCT
 268751 GATATTTAGC CTTTCTCTAG ATGATGATGT TGGGAAATTT TCTGCTCAT
 268801 TGTAGCTTTG CTTGCTCTAG CTGATGCTAG TTTCTTTTCT TCTGCTAGG
 268851 CTCTTTACTT TAATTAGATC CCAATTTGTA ATTTGCTCTT TCTGCTCTT
 268901 TGTCTTTGCT GTTTTATAGA TGAAGTCTTT GCTCATGCTG ATGCTCTTA
 268951 TGGTAATGCC TAGGTTTCTT TCTAGGCTTT TTATGATTTT AGTCTAAAG
 269001 TTTAAGTCTT TAATGATCTT TGAATGATTT TTTGCTATAA GTTAAAGTAA
 269051 GGGATCCAGT TTCAGCTTCT TACATATGCT TAGCCAGTTT TCCAGGCTCT
 269101 ATGATTTAAA TAGGGAATCC TTTCCCTCAT GCTGCTTTT TCTGCTTTT
 269151 TCAAGATCAA GATAGTTCTA GATAAGTGGC GTTATTTCTT AGGCTCTCT
 269201 TCTGTTCCAT TGTCTATAT CTCTGTTTTG GTACAGTATC CATGCTCTT
 269251 TGGTTACTGT AGCTCTGTAG TATAGTTTGA AGTCAAGTAT GGTGATGCT
 269301 CCAGCTTTGT TCTTTTGGCT TAGGATGAGC TTGGGATGCT AGGCTTTTCT
 269351 TPGGTTCCAT ATGAAGTTTA AAGTAGTTTT TTCCAATTTT GTGAAGAAAG
 269401 TCATTGGTAG CTTGATGCTG ATGCTGATTA ATCTGTAAAT TACCTGCTCT
 269451 AGTATGCCCA TTTTCTGAT ATTGATCTCT CCTACCATG AGCATGGAAT
 269501 GTTCTTCCAT TCTTTTGTAT CTTCTTTTAT TCTATTGAGC AGTGGTTTTT
 269551 AGTTCTCTCT GAAGAGGCTC TCCACATCCC TTGTAAGTTG GATTCTCAGG
 269601 TATTTAATTC TCTTTGAAGC AATTGTGAAT GGGAGTCCAC TATGATTTG
 269651 GCTCTCTCTT TGCTCTGTGT TGCTGTATAA AAATGCTTGT GATTTTCTGA
 269701 CATTGATTTT GTATGCTGAG ACTTCTGTAA GTTCTTATC AGCTTTAGCA
 269751 GATTTTGGGC TGAGATTAAT GGTCTTTCTA GATATACAAT CATGCTCTCT
 269801 GCAAAACAGG ACAATTTGAC TTCTCTTTT CCTAATTGAA TACCATTTAT
 269851 TTCTCTCTCT TGCCTAATTT CCTGCTGCTG AACTTCCAAC ACTATGTTGA
 269901 ATAGAGGCTA TGAAGAGGCT CATCTCTCTT TCTGCTCTT TCTCAAGAG
 269951 AATCTCTCTA GTTTCTCTCT ATGATTAATC AATCTCTCT TCTCTCTCT
 270001 ATAGATTAAT TATATTTT TGAATTAATC TATATTAAT TATATTTAT
 270051 TATATTTT TAATTAATC AATCTCTCT TATATTAAT TATATTTAT
 270101 TATATTTT AATTAATC TATATTTT TATATTAAT TATATTTAT
 270151 TATATTTT TATATTTT TATATTTT TATATTTT TATATTTAT
 270201 GATGGAAGTA GTTCTGAAAG GAAGCAATTA AATGGAAG GAAGCAATTA
 270251 TACCAAGGCT TGCAAAATTA TGCAAAATTA TACCAAGGCT CAAGCAATTA
 270301 AAGCAATGCT ATCAACTAAC GAAGCAAAAT AAGCAATGCT ATCAACTAAC
 270351 CAGGATCAAA TTCACTAATA ACAATATTAA CTTTAAATAT AAGTGGACTA
 270401 AATCTCTCTA TTAATTAATA CAGCTCTCTA AATCTCTCTA AATCTCTCTA
 270451 TATATTTT TATATTTT TATATTTT TATATTTT TATATTTAT
 270501 ATAGGTTTAA AATTAATTA TGAAGGAA TATTAATTA AATTAATTA

FIGURE 3, page 86 of 173

270901 CCCCCAATCA ACAGAATATA CATTTTTTTC AGGAGACAGAG CAAACCTATT
270951 CCAAAATPGA CCACATACTT GGAAGTAAAG CTCCTCTTAG CAAATGTAAA
271001 AGAACAGAAA TTATAACAAA CTATCTCTTA GACCAATAGG CAAATGAACT
271051 A3AACTTASG ATTAAGAAATC TCACTCAAAA CCACTGAACT ACATGGAGAC
271101 T3AACAACTT GCTCCTGAAT GATTACTGAG TACATAAGCA AATTAAGGTA
271151 GAAATAAAGA TGTTCCTTGA AACTAACGAG AGCAAAAGCA GAAATATCCA
271201 GAATCTATCG CATGCACTCA AAGCAATGCG CAGAGGGAAA TTTATAGCAC
271251 TAAATGCCCA CAAGAGAAAG CAGGAAAGAT CCAAAATTGA CAGCCTAACA
271301 TCACAATTAA AAGAACTABA AAAGCAAGAG CAAACACATT CAAAAGCTAG
271351 CAGAAAGCAA GAAATAACTA AAATCAGAGC AGAACTGAAG GAAATAGAGA
271401 CAGAAAAAAC CCTTCAAAA ATTAATGAAT CAGGAGCTG GTTTTTTGAA
271451 AGGATCAACA AAATCGATAG ACCGCTAGCA AGACTAATAA AGAAAAAAG
271501 A3AGAAAGAT CAAATAGAGC CAATAAAAAA TSATAAGAG GATATCAGCA
271551 CGGATCCGAC AGAAATACAA ACTACATCA GAAATAGCTA CAAACACCTC
271601 TATGCAATAA AACTAGAAAA TATAAAGAA ATGATATAAT TCGTCCAGAC
271651 ATACACTCTC CCAAGACTAA ACCAGGAGGA AGTTGAATCT CTGAATAGAC
271701 CAATAAGAGS AGCTGAAAT GTGGCAATAA TCAATAGCTT ACCAAGCAAA
271751 AAGGCTCCAG GACGAGAGG ATTCAGAGCC GAATCTAGC AGAGGTCGAA
271801 GAGAGAACTG CTAGCACTCC TTCTGAACT ATTCGAATCA ATAAGAAAG
271851 AGGCAATCTP CCACTACTCA TTTTATAGCA CCACTACTCT CCGTATAGCA
271901 AAGGCGGGCA GAGACAGAAC CAAAAAGAG AATTTTAGAG CAATATCCCA
271951 ATATCTTGA TGAATCTGA TGCAAAATCT CTCAATAAAA TACTGCGAAA
272001 CGGAATCCAG CAGCAATPCA AAAGCTTAT CCACTACTCA CATTCTTAC
272051 A3AATGCAAA CTCATAGCAT CTTTTAAAT TATTTATCTC ATACATTAT
272101 GTTATACATG CAATATCTGA CAAAAATAT GAGTTACTTA TATAAAGCTT
272151 AAAAGCTTCT CATTCTTCT GCTAAGCTC TAGCTAGACT TCTTCTTCTT
272201 ATATATCTCT TATATATATT TTGTAATCTC TCTTCTTCTC TACTGCAAGA
272251 GCTTTAATCT CATCTCTTGA TTGTAATAA CATTCTGCTG CTGCTCATAC
272301 AATTAACAAA GAATGCTTGA ACAAAGAAAA AATGCTGAT TAATATGCTA
272351 CTCGAATTTA CTTCACTTGA ATATCTGAT ATTGAATCAA CTGGAAATTA
272401 AATTTGACAA AATTACAGTC ACAGATCTCT TATTTATGAG GATATTTCT
272451 GAGAAAACTG CTCATAGCT GATTTCATCC AATGCAAAAT ATTGCAAGCT
272501 ATACTTACAG AATCTAGAAA GGTACAGCTC ACTATACACC CAAGCTGTAT
272551 GGTCTGCTCT TTACATTA CAACCTGACAA CCACTTACT CTACTGATAT
272601 GGTCTGCTCT TATGCTGCTA CCAAACTCTC ATCTGAAAT GTAATCCAT
272651 AATCTCTATG TGTCAAGGCA GGGAGCTTGG GCGAGCTAAT TGAATCATGG
272701 GGTCTGCTCT CCACTGCTCT TTCTGCTCAT AGTCACTGAG TCACACAGCA
272751 CCGATGCTCT TTATGAGAGT CTGGATTTT CTTGCTCTCTC ATTCATCTCT
272801 CCTTCTGCTG CCACTGCAAG AAGGCACTGT TGTCTCTACT TTCCACCATG
272851 ATTCTTAAAT TTCTGAGGCT CATGCTCAAC TGTGAGCTCA TTAACCTT
272901 TTAATTTATA AATTACCCAG GCTCAGCTAT GTCTTTATTA GCAAGCTGAG
272951 AATGGACTAA TACATCTCT CCATCTCTTA TGAATTTGTA AAACAATGGT
273001 AAGTACTTCT CTATCTAAAC ATAGAAAATG TGCATTAATA ATATGGTATT
273051 ATAATCTTAT GGGACCACTA TCTTACATAT AGCTTTCTAT TGAATGAAAC
273101 ATTGGTADCT GGGCTATTTA AAGCTTTTAA GGTCTTAAAA TAAATTTCTT
273151 ATTCTTCTAT ACATCAATTT CTATTAATCA AATTATTTCT GTTATTTTAA
273201 AATATTTTAT TATTAATTTA TCTCTTCA GATATTTTCT TATTAATTTA
273251 ATGAAAGAG GATTAATTTA TTTATTTTAA CTATTAATTTA TAAATTTTAA
273301 GATTAATTTA ATTAATTTA TATTAATTTA TATTAATTTA ATTTTCTTAT
273351 ATGATTTCTT GGCATAATCA GTTCAATCT CTACTGAGGC CATATTTCTT
273401 TTTTACTCTT GGGGGGAAAA ATGCAAAATG AATATGACTT GGCACCATG
273451 AAGCACACTT CCTAGCAAGG GTACAGAAAA TCAACATGTA TGATAGTGGT
273501 AAGATCCGCT ATTCTCACTT TTAATCAACT CCAACCCCTA ATTTCTGATG
273551 AGCTTTTCTT CTTCTTCTCT CTCAAGAAAA GGTCTTTTGA CTGTTATTTT
273601 CTGAAAGGCA AGGATTTTAA AAAAAATTT AAAAAATTT CATTTTCTT
273651 GTTCTTAATG GTTCTTAAT TTTTATTTT TATTAGAGG TATTATTAAT

FIGURE 3. page 87 of 173

274051 ATCCAGSTGG AATGGTTTCA CTTTTCTTT GATAGTCTT GTGTTGAGTA
274101 TATAATTTTTC TCATAGTGG TGATACAAAA ATTGATATT TAGGTATTTA
274151 CAAATCTTGA TCTCTACTG ACCATAAGCT TTGCTAATCA GAATGTGAGA
274201 ATGGAAGGCC TACAATGGCA ATTACTCTGT CTGCTCTTTC TAGCTTGAAG
274251 GAAAAATAC CTGGCTTTTA CTGGCTTTTA AATAAATGTC GTTTTATTTA
274301 GGTACTTAAT AAGTGTTTTC TGATTAAAT AATAATGAAT CAATGAATAA
274351 ATGTGTCTA CATAGATGG TAAATGAGT ATTTTATT TTTCTTCTT
274401 GCACTTAATG ATCATATTTT CAAGACAAAT CATTGATTT AAGTAGGTAG
274451 TTTGTGATTC TAGGATAGAC CACATGAAAT TGAGTGTGTC AGCTCASTTT
274501 CATTCTAACA TTGTTATAAA TAAATGAGCT GTACATGGTT ACAAAAGCAT
274551 TATTGACAC CTGGGAGTCC CAAAAATTTA TGCTATCCC AAATAATATT
274601 GGAC TGAAAA GCGACATGCT TTTCACAAAA AACAGATTTT ATAAAAAGATG
274651 TTAAAGCCAG GTAAGGTCTT TGCTATGAG GGTGTAATC TCATGAATG
274701 ATGATGGAAA GGAAGAGCA AGAATAATAA AACAAGATG CTTTTCTTTC
274751 AGGAAGAGGA AAGGGTGGT GGTGGTAGAT TCCCAAAAAG GAGCGGGCT
274801 TTTAGGTGAA TATCTTTTGA AAAGTTTCAG TCCCAACTTA TGAATTTAA
274851 AGTGCCAGGT CATGGTTCCG AGATAGATGA AAGGACTTC TAAGATATCT
274901 TAAACACATA AATAATATGT TCATATTTAT TAAGTATTTA GATACAAAAG
274951 TACCTTATAG CTATTATAGT CTCTATCTTC ACAGAAAAAC CTTTGTCTAT
275001 TATTGTGTTT TATGATGAA AAAAGAAAAA GTGCTAATTT TGTCCAGGT
275051 GAGATACTTT AAGGTAAAGT TAATATTTGA ATGGAAGCAC ATTATACCA
275101 AGTTGTTAGT ACATTCCTAG CCACTAAGCT GCTCTCAAAA TATATCAGGA
275151 AAATTTTTCG CATGGTGAAA CTCTTATAAT AAAGTTTATA AATAGTTTAT
275201 AAATCAATTA AGCTATATA TAATCTTGGG AGACCAAGAG CTGACATCAG
275251 ACTACAAATG TCCCTGTATG TATTTAAGCA TGGAAACAG TCTTCATTTT
275301 ATAGCATCAG GATAAATAG CAGCATTCAA CAAGTGACTA TTTAATGGGA
275351 TATTGTGAGA TCTTTATAG AGAAAAATAA TGCTGACTTT TCTTTTCCAT
275401 TTTATTTTAC CATTGAGTAA AAAGTGTCTT CTTTGTGAT TCTTTATCTA
275451 GATATTTTTC TATGGCTCTA ATTTGCCCAA TATTTATGTC TAAATATAT
275501 GTTCAGTAA GAGTACATAG TAAATAATTA GAATTTATTT AAATAGATTA
275551 TCTTATCTAA CTTACGTAAA TGGAGATTTT CTTAGGACTA GTTACGTTTT
275601 TTTTCTCCAA GCAAAATAGT GTATTTCAT TGTGCTAAA CAAGTGATGA
275651 TGAGGAAATA AATATTTTAT GTTAATCAAG TCTAAATGTT GTGTAAAAAA
275701 TACCTATATG GGGAAAGAAA AGGCATACCA TGGCAACTGA AGAAGGTGGA
275751 AAATAATTAC TCTTTCTAG GGACAATATT CAGACTCAGT AGCAGGCATT
275801 TTGCAGGCTT AGCAGATAGA CATATTGAAG CCGCTACTTC TGGTATGAA
275851 ATATTAATAG TGAGGGCATG AGCCCAATCT GAAAAACATA AAACAAATTA
275901 CTTTGGAGGT TAAGGGGATA TACCATTAAT AATCATCTC TGAGETGAAT
275951 TAGCTTTTAA ATATAAAAAT GGTTCGCAAT AACATGTCTA GCGCAACATT
276001 AGAGTTATTI TTAAGCAAGT GGGGTTTTTG AGAGACTATA AAAAATCTATG
276051 ATTTTCTAAG TGCATGAAAT GTGAAATAAG CAGTTTGATG CAGAAGAAGA
276101 TATAGTGACA CGAATATGCT AAAAGTGAAC AGAATGGGGA TTTAGCCTTT
276151 AATGAACTTT AGAGGTAGAA CCATGTAGTA ATTTTACAGA TGCAAAAAATA
276201 TTATGTTTAA TCTTTTAAAT CTTAAATTA TATCTTTTCT CATCTTTGAT
276251 TTTAAAGAAA ATCTTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276301 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276351 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276401 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276451 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276501 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276551 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276601 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276651 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276701 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276751 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT
276801 TTTAAAGAAA AAATTTTCTT AAATTTTCTT ATATATTTT TTTAAATTTT

FIGURE 3, page 88 of 173

280351 AATAA AAAA TAGACACAGA ATTTGGCATG ATATATTATG TTCTGTGCGT
 280401 GTGTTTCTTT TTTAAAGCCG GATTCAGAGT AGCTACCTAC TTGCTGTGAT
 280451 GTTCAATCTT CCGCAGCCTA GTTAAGTGGG TTCTTTCCTG TCAGGCACAG
 280501 ACTTGTCTCT CCGCTGAAAT GTCTTTSAGT CTAGSATGGT GTGATACTTT
 280551 TGGTCTCTTT CCGATCTTAC AGTTAGAAGT TAGCTACCTG CCAGGAGGTA
 280601 AGAAGAGCTT TTTAGCACAG ACATCTCTAA GTCCAGAACC TTACATTCAG
 280651 GAAAAAATT TGAACCGCA GAAAAATGCT TCAGAAATAT AACTTCAGAG
 280701 CACAGAGGAA AACTCTCTTT CCTCCTGTA TAAATTTGT TGAATGAA
 280751 TTTGACATTT ACTTCATTGA ATTCGGGAA CATGATGTC TGGTASTTG
 280801 CCACGCAAGA ATTATCTTTG CAGTGGCAT CCTCTCTACT TTTGAASTT
 280851 TATCA AAAA GAGAGACAG TCCATACAG ACAAACATAT AGGTCAASTT
 280901 TATATCTCAG CAAATAAAAT TTTTGAAGA CTAAATAGAA TGCCTAATGT
 280951 GGTGTGTAAT TCTAAAAAT GAGAACATGT TCTACCTCTT TTTGTACCT
 281001 AGTAAATTTT TGTGATACAG CTATACATTT TAAATCTGT TCAATATAT
 281051 CAGAACTCCA TCTATTAAT ATTTGTGAA AACATCTTT CAGGACACAG
 281101 CCACCTCTCT TCTCTTTCCA GTCTTTCAT AGATACAAT ATAGCTCAG
 281151 TATATAGTTT APCAACAAG ATTTCTGTG ACCACTTAC CCGATCAATG
 281201 TGAGATATCA TTTCACTGCT TCACTCTTT TTTCTTTAC ATTCTATATT
 281251 CACATCTTCA GTTAAAGTTG TGAAAGGTT ACAATGAAAT GTGATAGG
 281301 TAATGATCAA AACCACTAT TACCAACTTT CCAATATAA TAAATGATC
 281351 ATGGGTGTCT TGTGTGCATG TTTTAAAGTC ATAGAAATGG TAAATGAGG
 281401 AAGCCCTTGT TTTTAAAGTT TCTAAAAAT AACCTCTTT CAAATAATAA
 281451 TATGTGACTT AGATTAATA GTAGACCTTG AGCTCATTT AGGCACTTT
 281501 TGGGATAATT TAACACTCTT ATCACTAATC TTCTGTGTA CAGATGAGC
 281551 TGACTCTCA CACTGTTTCTT CTCTGCATGA TTTATTAAG TTTCTTATA
 281601 AGACTCTCTT GAACCTGGGC TTGTAATTA GAGTCTTTA GAAATATCT
 281651 ATTATCTCTG AGTATAGTTT CTCAAACTCT CTGGCTCAG ACTCTACATC
 281701 TGTAAATTGA AGAATCTGAA TTTGATGAAT TCTGCTAAA AACACTCTAG
 281751 CAATTTTAT CATTTACATT GAAAAATAAA AACTAGATCT AACTTACTCC
 281801 ATACTCTTTT AACTGCAACA TATTTCTTT TGTCTCTGT TTTCTGCTT
 281851 TTTTCTTTT TTTTCTTTT GAGGAGAGT CTGCTCTGT TGGCCAGGCT
 281901 GGACTGCAGT GAGGCAATCT TGGCTCACTG CAAGCTCAC CTTCCGGGTT
 281951 CAGGCCATTC TCTGCTCA GCCTCCGAG TAGCTGGGAC TACAGGCCGC
 282001 TGGCACACAG CCGGCTAAT TTTTGTGATT TTTAGTAGAG ACAGGATTTT
 282051 AGCTGGGAT GTCTGATAT CCTGACCTCG TGATTAGGCT ACCTCGGCTT
 282101 CCAAGATGC TGGATTANNN NNNNNNNNNN NNNNNNNNN NNNNNNNNN
 282151 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282201 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282251 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282301 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282351 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282401 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282451 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282501 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282551 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282601 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282651 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282701 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282751 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282801 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282851 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282901 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 282951 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 283001 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 283051 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 283101 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN

FIGURE 3, page 90 of 173

283501 ATACATATTA CTTGGGAGAA TATCAGTGT GGGAGGAGG TATATTTT
283551 CCAATATATA GTGATTATTA TATCATAAAT ATTCATAAAT TTAGCTTT
283601 CCTGTTAATG ACATCATATA TTGTTTTTAT CAAATATGTT TTGAAAGA
283651 TAGGAGAAAG TTGCTTTTTA ATCAGGTGCA GCGAGTTGCA TTTTAAAG
283701 ACAGCTGAAA CAATATCTCT CACATCTGTC CATCTTTTGC CACTGTTGTA
283751 TCAAGAAGGG AAATCTGTTT CTCTGTGTCC TTSAATATGA GTGGAGCTG
283801 TGGACTCATT ACCCAATAGA ATATGGAAGA AGTATGCTG TGTGTGTTGT
283851 AAGCTTCAAC CTAAATTGGG CCAATAGGCT ATGCTTCTG CCGCTTGGAA
283901 AGTTTGCAT TGAAGGCA TTTTGGAGG CTCTCTTAG AAACCTTAGG
283951 ATCATTTCTT GAAAGGCTA AGCAGCTTGG AGAAGGACCA AGTAAACATT
284001 CCGATTCTAT TTGCTGGTGG ATAGGCTCAT CACGAGCGAG CTATGGCAGC
284051 CAGCCATATG AGTGAAGCT CTGGAATTTG CCAATGAGG CTTCAGATGA
284101 CAGCAGCGAA AAGCAAAATC TAATTGCAAC AACATGAGG AATCTAAGCT
284151 GGAACCGAGG AGCTAGAA TTAGCTAGGG AGGATGTGA GAATATCACA
284201 AATTGTTGCT TTGAAGCA TAACTGTGAG GTGTTTGTG ACAGAGCAAC
284251 AGACAACGAG AACAAGAA CTATGCTGG AAGCTTTTG AAAATSTAAT
284301 TGCTTTCTAT TCTTCTGG TAAATCATTA ATAAAGATTG ACTGAGCA
284351 GCATAATTTT TAAATTAAT CTCTTAGTAG TTTCTTATA GTAAATCTGT
284401 TCTCTTTTAA AATTCTATA AGTAATTTTA AATCTAGAG ATATTCCAT
284451 TTCTTTTGTG AATTCTATCT GGAAGTCTA TTTCTAGAAA ATATGAAATC
284501 TATATGTGAA GACAAAAAG ATTGTTTAA TCACTATTCT GTCTAGGAT
284551 TTTGAGATTA AATTCTAATT TATGTTTAAA AAGAAATGAT TTTAAAGACT
284601 CAGTAAGAGG GATTTTCAAA TGTCTATCTT CTGATATT AAATAATCAT
284651 GTCAGATACA TTGCAAGGAG TGTCTGTGA CTGTTTCTT TTTTGGGGA
284701 ATCTTTTGTG GGGCAATGA AGTATAGATC TCTCTTTCT CATAATTATA
284751 AAAGTAATAC ATACTAGGTA TTAAGAAATC TAGCAATAAC TATGATCAAA
284801 GTAGAGGTAA GAGTCTCTA AATAGGTCAG ATCTGAGCTA TGTCTCAATA
284851 ACCAGGTGTG ACTGGGCAAG TTATTTCTAT TCTCTGTAA TTTGGTTTCC
284901 CAGTATAATA CTACAGCAAT GAGGATAATA ATAATAATT ATAGAGATTG
284951 TGTGGAATTA CATAAATAG TAAATAGAAA GCACTTAGAA TAGAGCTTGG
285001 AATATAGTAG GTATTCAACA AACTTAGTT TTAATTAATA ACAGTTTGAT
285051 GTGTGTGTGT CTTCTGCAAG TTTCTATTCTA AGTATGATA ATTATATATA
285101 TATGTGTGTG TGTCTATAT ATTAAAGAAA AATATAAATT TTAATGCTC
285151 AGTTTTCAC TCAATCTTGG AATCTCTCAG TATATAATAT GAGCATGCTT
285201 TTATAATGAT ATATAGAAAT ATCTGTGATT AGTTTTGTA ATCAGATCAT
285251 GTTCTAATTT ATTAATAATA TTTGTGAAGA ATAGGAGCGG TTTATTTTA
285301 TTTTTTAAAC ACTTTGAGCT AGTATAAAAC ACTGAAATTA ACATCTTTAT
285351 TTACAAAAATA AGCAGAAAAA CAGGAAAAAT GATCTGTGTA AAATATAAAA
285401 AGACTTTTAC TCAAGTAGAT CAGAAATATT TATCATTATA TGGCAAGTAG
285451 TTTACTGACT TTAATCTTT ATAGACACTA AAGGCTGCTT AATCTACATA
285501 CAAATAACAA ATACTGATGA AACTAATAAA AAGAGGCTG AGAAACAGAA
285551 AAACCTAGGG TCTAAGAAAT CCATATTATC AGCTCTCTTA AACCACTTAG
285601 TTCAAAAAAA CTCTGAGTGC TCTACATTAA TACTAAGCTT CTCACAAACA
285651 GAACTTTTAT TTTTATGAG AGCTAAATTT CTAAATAAAA AGTAAATATT
285701 AAATTCTAAA CAGTACAACT TTTCTGAGCA CAAATTTTCT ATAAAGATA
285751 TTAATCTTAA CTCTTAAAG AATTAATTGA AATGAGGTA TACTCTAATA
285801 TTAATCTTAA CAGTACAACT TTTCTGAGCA CAAATTTTCT ATAAAGATA
285851 AAATTCTAAA CAGTACAACT TTTCTGAGCA CAAATTTTCT ATAAAGATA
285901 TTTCTGAGCA CAGTACAACT TTTCTGAGCA CAAATTTTCT ATAAAGATA
285951 ACTAATAATG ATAGGAGAG TGTCTTCTAT GGGGAGAGG AAGCAATGAT
286001 TTAATCTGAG CAGTACAACT AGCTCTCTCT CTAAATTTG CCGCAAGATA
286051 AATATATCAT CTTTCAAAA ATATCAAGCT TTCTATGAAA AGACAAATCT
286101 GAAGTGTGCT AGCAGGAGG TTTGAGGAG CTGAGCATAT CTATGCTCAT
286151 CATTTTGGCA ATCTGAGAG CTGAGCAATT GTAGATGTG TTCGATATT
286201 TTCTAAGAA TATCTTTTA CATGAAGTG TTTATACATA TAAATCTTT
286251 AACAGAAAGT TTTGATTTGT CAGTCTGATC ATATAAGTT TTATTTTCT

FIGURE 3, page 91 of 173

286651 GGTGAGAGAA GGGACAATGA AAAAAAAT GCAGGTGGC TCTAGAAAGT
 286701 TAAAAAGGC AAGJAAATGA ATTCACTTIT CGGGGCTCCA GAAGJAAATGT
 286751 AGGCTTGAAC ATCCACTTGG TTTTCTAAGC TTCAAGITTT AAACAGTGA
 286801 GGCTTTAAAC GAATTAATAA TAATAATAAT AATAAAAGGA CAACATTTTT
 286851 TGGGGCAAACT TTTCACTTTT ATTACTTAAA AAAAAAGGCT ATGATGAAAT
 286901 TTGTGGTTTA TATTTTCAG AGTGATACAG CTTTATCTAT TCTATTTTGA
 286951 GAGTAGAAAA GGTGTTCTGT TTGGTCAAGC TTATTCCTAA GAAATAAAAA
 287001 GGAGGAGATG AGTCAACAT GCCCAATATG TTCTCTGAT TTTACCAAAC
 287051 AASTAATCCA CAGTTTCTCA CCAGAGGAT BBACAGATGA TATTTGTGAG
 287101 ATGATGAATG GGCCTCAACT AACAATATG ATTCATTAAG GAGCCACAGG
 287151 GATGTCTGCT TTTCTTCTT GTAAACATA GGTAAATATG CTAGTGTGCT
 287201 ATGAGCAACG AAATGTATTC AGGCATGAGA GGAATGTCA GAAAAATGAA
 287251 AGAAGAAAAT TTCTCAAAAT AACATGATTC TAAGATGTGT ACMAACAGAC
 287301 CTCTGATTTA GTCACTTTAT TGTCTATAAC TCAATATTC AATCTTAA
 287351 TAAAGACAT ATTTATAAAA TCTACTACT AAATATTTT GACTCTGTGA
 287401 CCACTTTAGT TGCTCATGTG GGAATGTGT CTCTACTTA TGTATTTCT
 287451 GATGTCTGCT TAAGAGGAT AACCATTCAG ATCTATTTT TGAACAAATTA
 287501 ACCATATTTT CGGCAAACTT TTTCTTCTA CTCTATTTT AACAGCTTCT
 287551 CTGACAAATG TCAACATTT TTTCTTCTT TTTCTTCTT TTTCTTCTT
 287601 TCAACATTT TTTCTTCTT TTTCTTCTT TTTCTTCTT TTTCTTCTT
 287651 TGGCTGCTG CAAGCTGCTG CTCTGCTG CTCTGCTG CTCTGCTG
 287701 GCTCTGCTG TAGCTGCTG TACAGCTGCT GCTGCTGCT GCTGCTGCT
 287751 TTTCTGCTG TTTCTGCTG TTTCTGCTG TTTCTGCTG TTTCTGCTG
 287801 CTCTGCTG TTTCTGCTG TTTCTGCTG TTTCTGCTG TTTCTGCTG
 287851 GATGACATTT TATTTTCTGCT CTCTGCTGCT GCTGCTGCT GCTGCTGCT
 287901 CTACAGGGA TATGAGGAT GCTGCTGCT GCTGCTGCT GCTGCTGCT
 287951 GCTGCTGCT GATGCTGCT TCACTGCTA AATATGCTG GTATTACTTC
 288001 CTAAATGCT TTTCTGCTG CTCTGCTG AATATGCTG AATATGCTG
 288051 GTCACATATA CTCAATTTCT GTACATCTTA CTCTGCTGCT AATATGCTG
 288101 CACTATATCT ACAAACTTCT TATAATTTTA CCAATCAAT GCTTGGACTT
 288151 TTTGAAAAAT TCAATATATA AAAATGCTG AATATGCTG AATATGCTG
 288201 TACTCTCTTA TTTCTGCTG ATAAATGCTG AATATGCTG AATATGCTG
 288251 AAGGCTATTT ACCAGTCTA GTATCTGCTG TCAAGCTGCT GCTGCTGCT
 288301 GACTGCTGCT TTTCTGCTG GTCTGCTG GCTGCTGCT GCTGCTGCT
 288351 GACAGGCTG TTTCTGCTG GCTGCTGCT GCTGCTGCT GCTGCTGCT
 288401 AATGGGAGAA TCCATTTTCT ATGCTGCTA GATGCTGCT GCTGCTGCT
 288451 CTTGGCTGCT TATTCATCTG TTTCTGCTG TTTCTGCTG TTTCTGCTG
 288501 ATCAGCTGCT CAAAGCTGCT TATGCTGCT GCTGCTGCT GCTGCTGCT
 288551 CTTTCTGCT CTTCTGCTG GATGCTGCT GATGCTGCT GATGCTGCT
 288601 AAGCTGCTG TATTCATCTG AAGCTGCTG GATGCTGCT GATGCTGCT
 288651 AGTAAGCTG GCTATATAG ATAAATGCT TTTGCTGCT TTTGCTGCT
 288701 ATTTGCTG CACTGCTGCT ATTCAGCTG TTTGCTGCT TTTGCTGCT
 288751 TTTGCTGCT CACTGCTGCT TTTGCTGCT CAAATGCTG TAGTGTGCT
 288801 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 288851 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 288901 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 288951 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289001 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289051 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289101 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289151 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289201 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289251 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289301 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289351 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289401 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT
 289451 TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT TTTGCTGCT

289801 ACITTCACCTT TTGCTAGGTT TTCCAATTCT CTTCACGAAT TTATTCATTT
289851 TGAAGAAAAA AAAAAACCTT AAATTACTGT TTCTTTTTCG ATTCATGAAT
289901 ATAGTTTCTT GATTTAATTG TCTAAGATTT GTGGTAAAGT TATTTTCTTG
289951 TAAACAATT GTGCTGCTTT TAAATGACTT TGAGGCTTCC CTGGGAATGT
290001 TGAGTAATGT TTTCAAAAAA GTTTTAAGGC CATTTCTGCA GTTTTGTCTG
290051 TTTCTTCTTT TTCTTCTCTG TCATTAAGAA CTGCTCTTCT GATGAATAGC
290101 TTTATCTTCT GCTCACTTCT ACTAAAAATG TGAATTTGAT GTTGCCAAAT
290151 TACCCCTAAT TTCTCTCTCT TTTGACCACC ACACAGAAGT AAGTCTATTA
290201 TATTTTAICT TCCTTGAAGT TCTAAGGGAA TTTAATCTTG GAAATCTATT
290251 TATCTTCTCT AAATATCTGA CACCAACATT TTTGCTCTGA TTAAAAATTCT
290301 TGCCTAATGT TATAAGAGAA AATCTAATCT CTTATTATTA TTATTATTAT
290351 TATTATTATT ATCTAGCTTA GTTTTGTATT TTTTGTCTTG TCTATCATAT
290401 TCACTCTCAT TTCTATTCTA TASTATTTTG CCACATTTT ATTCTTTAAA
290451 TAGGGAATGC CTCTCTAACA AAATTCTATT TACTTTCTTT GTCTGGCAAA
290501 TAATTTTATC CTCTAATCT CAGGATCTAA ACATTTTGAA AGCTCTAAAT
290551 TTGCTAATTT GAGGGGAGGT AATGACAGAA CTATTCACAA GAAGCTCAGAC
290601 AGTGTTTAAG AGAAACACTT AAATGAATCT TGAGTGGGCT TACGGCTAAT
290651 CACAGTATAG AGCCACCACT GGCAGGCACT AGAATGAATG AGPATCTCTG
290701 AAGCTCTGAG CAGCTATATG CTGAGGCTTG ACAGTATCTA TAAACCTCAG
290751 TGAAGAGATG AAGCAACCACT TGAAGCTTGA ATCTCTGAG
290801 TAAATACTCC AACATGGCTG TCTTCTCTCT CCAGTTTTTT GCTGGGAAATC
290851 CCGACTGCTT GAAACCAAACT AAGGAGGCACT GAAATAAGG AAATCTCTGT
290901 AGCAGCTCTT CTCTATTCTG AGGAGGAGCA GAAGGATAGA CAGTGAACAT
290951 AGAAGGGCAA ACTGAGGAAA TGCAGGAGAC ATATATTACT ATTTATACAA
291001 CCATTTCAAT TCTTCTCTAG AGAGCTCTGT GCTTGGGAGT TCGATATCTC
291051 AAATATTCTG GCTTGTCTCA TTAATTTCTG TTAAGTTAGG CTCCAAATAA
291101 AATACCATTG GATGCTCTTA TATTTTCTCA AGCATCTCAT ACGCTATCTG
291151 CCTCTGAAAT TAGTTTGAAA ATATCTATCT ATCTCTCAT TAAATCTAAG
291201 TTGATTTTCA CTCTCTGCGA AGCTCTCTAT ATACTCTCAG CAGAGATCTT
291251 GAATATTCTG TGTCTCTTAG GTGAGCTCTT GAGAAGCAGC AGCTCTTAAA
291301 ATATCAATGA AACCAATCTA GTCTCTCTCT GTCAAGTGAA ATTTGGCTAC
291351 ATGGCTCTCT TAAGTATCTT TCTCTAGTGA TGTTCAGAGA TGACAAATAA
291401 TTAGCTCAGT CTTTGTCTCT ATAAGCATCT ATGCTACAA ATTTATCTCT
291451 TTATTAATCT CTAGCAAACT ATAACTACAG TAAGGAAATG GAATCTAGGA
291501 AATTAATCTT TATCTTATTA AGTTTAAATC TCTTTCTTTT CAAATCTAAT
291551 ACATGATAGG TCAGCTTTGT TAATGCTTCT ATACTGCTCT TTATACTCTT
291601 ACCAGTCTGT CATTCTATTT TTTTCTAGTT CTCTCTTACG ATTTGAGGGA
291651 TTATAAAAAA TCTCTACTGA CATCAAAAAA TCTCTCTCAG TGGCTTACAA
291701 TAGTGCCTGA AATTTCTCAT TTCAGAGAAA CTTTCTCTGAT ATAGGAATCT
291751 ATCTCAGAAA GTGTTTATTA AGTGGACTTA GCTTACCTAA GAGAGCTAAT
291801 ATGTTGACAC ATTCAATCAT CAGCTCTCAA GTCATCAGGC AAAAGGAAGG
291851 AACCATGCTT GTTTTGATGA AAGTCTCTGT TTACAGCAAGC TAACGGCTTA
291901 ACCTTCAGCT GATGGAATTA ACCCTCAGCT TTATATCTAA CATATCTCTA
291951 GTTATCTCTA AATCAAGCTT AGTATAGCA TTTCTTAA AAAATCTTAA
292001 AGTCTGAGCT GATTTTCTGT CTCTTATCTG AAAATTAAGT CTCTGCTAAT
292051 TCTTAAATTA TAACTCTCTT AGTAAAGCT TTTTATAAA CTCTGCTAAT
292101 TTTAAATCTT TAACTCTCTT AGTAAAGCT TTTTATAAA CTCTGCTAAT
292151 AATCTCTAAT TAACTCTCTT AGTAAAGCT TTTTATAAA CTCTGCTAAT
292201 GAGGATACTT TAACTCTCTT AGTAAAGCT TTTTATAAA CTCTGCTAAT
292251 AGTACATTTT CCACTCTCTT CAGTTAATCA ATATTGCTCT CTATCTCTTA
292301 GTACATAACT TATTGCTTAC AGAAGCTCAA CGTACTCTTT GATATTTCTT
292351 TTATGATAAT GATACTCTAT ACTTTTCTAG TATACAGGCT AATGCTTTAT
292401 GCTTTTTTCA GATACTGCTT ATTTAATCAT CACAGTAACT CCATAAGCTG
292451 GTTAAATTA TATATCTAT TTTACATATA GGAATATTA CTCTGCTAAT
292501 TATTTAACTA ATTTATCTA AATGAAAAT ATTTAAATA CTCTGCTAAT
292551 AATTTAACTA ATTTATCTA AATGAAAAT ATTTAAATA CTCTGCTAAT

1000 bp scale bar. The scale bar represents 1000 bp. The scale bar is located at the bottom left of the figure. The scale bar is a horizontal line with a vertical line at each end. The scale bar is labeled "1000 bp" at the right end. The scale bar is located at the bottom left of the figure.

FIGURE 3, page 93 of 173

296191 TAACATCTCA CTCTTGGGGT AACAATAATG TAAGGGAAAG ATGAATG AG
 296191 GACAGGTCCTC AGTTCAAAGC TTCTTCTDAG TAATTAGTTG AGAAAATTTT
 296201 CTTCAGATAA GGTTFCTCTC TCAGAAACAT CTGGCAATG GAAGACATTC
 296251 AGAAACAGGT AGCCATGATT TAATTATATG ATTGTTAATA ATGTAGTAA
 296301 TAATAATATG TAGCTATGCA GGCAGCAAGG TATTCTTAAA TA TTTAATTT
 296351 TCTTATTTT TAAAAAGTGC TAAGCAATG TAAGGSA AGG TA TAAGGAAA
 296401 ATGGGTCATGA GCTAATGTAG GATTAATATG ATTAAATGA AATGTGG GGC
 296451 TCGAGATAGG CTGAAATAAT ASATGGTGGT TTGCTGG CTG GCGTGTG GCA
 296501 GAGAAAGGGA ATTATGCTTA ASTTAGGAT CTAGTGG GTG GGAATG GAC
 296551 AAGGTTSCAA GAAAGAAAGT GSAAGAGCTG TAATTAT TAA GC TATTG GTT
 296601 ATAAAGATCT GAAACATATC TAGAATACAG CTGATT TAAA AGTCATG GAA
 296651 TDCAGATGCT TGGCTTAATG AAGGAATT TG AAG CCAATCA TT TGTCTCA
 296701 AAACAGAAAG GGCACAAAT GTCCCAAGAC GAAAGSA AGG GAGGSA CAA
 296751 ATGCATGGCT CACTTTACTA CTGCTAATG GGGATGATAA TG TACTATTT
 296801 TCCATTCTTG TTAGGATCTA AATCATATTA AAGCATGAT AGGCTCTATA
 296851 ACATGSGCTG GACACAAATA AATGTAGCT GTT TCAATA CTTTTTTC
 296901 TAAAGTGTCT TTTCAAGAG TAATCTCTGT AGTATG GCA GT TGAAGAT
 296951 TAAAGATGCT TCAACATTT CTACTGCATA CCAATTTCA TGACTA GGG
 297001 AGCTTGTCTA AAGAGCTAA GTTCTGTCTAT ATA TATTA CG CG TATGAG
 297051 TGTGTTTCTT AAGGAGCTG GACAAATGCA GAGTAT TAA ATTAATTA
 297101 GAAATAAAGG AAGGGCTCA TCACTGCAAA GGTGAAAGG AGGCTATTTT
 297151 TACCTATTAG ATGATAAAAG GCGCTTCCCG CTACTAT TCG TCACTG CCA
 297201 TTCAAAATCT TACTGTATGT ACGTCTCTAT CTGGAGAAAG GAATTAATCT
 297251 GATGATTTTA TGTCAAGCTG CTIAAGGGCT GAGTGA TCA AGTGCATCAT
 297301 TGAATATTTT GAGAAAGTTT ACTCACTTTT TTAATTTAG AANTTGATTT
 297351 TATGATTTTA AGTTGATTAAT ACTAAGCTC ACTTAT TGT AA CATCTTTT
 297401 ATGCCAGGCT CTGCTCAAG TACTTTACGT GTATTAT CTG ATTTGAGCTT
 297451 CCCCCAGTGA TTAATAGGA TACTCTCTCT CCGCTTTTC TTATTTTATA
 297501 GATGAGGAAT CTGATCTTGT GAAAGACTAA GTAATTTGT GAAAGTCAAT
 297551 GATTCACTAA ATAAGCTAG AGCCAAGTCT GTGCAATT CT AGGGGCTACA
 297601 CAGAGCTGCA CATCAAGAA ATTTACTACT CAATATCA CT GC TTGCGCT
 297651 TCTCTGAGGT TTTAAATTTG TTTTAAATAA GAAATATTTG AAAATAAAT
 297701 ATTCACTCTG CTGGGATCTG AGTCATTCTC AATACT GCA GAGAGCAGAA
 297751 CATGAATATG ACAAGCAGGT TTGTGTAAAT TAGATTAGTT CTTCATTTT
 297801 AAATGACAGG TAAATATATA TAATCTCTCT TGGAAAT CT GAAAGGCTCA
 297851 TCGTATGCTT ATATTAGGCG ATCAACTACA TCAAGCA CT AA AATCTAA
 297901 ATACATTCAT TATTGTTGTA ATTTAATCAT GTTGGT CAT GTATTGTGT
 297951 CTGTGTGTGT GTGTGGGTAT GTGTGTGTGA GAGAGATTT ATTTAAGGA
 298001 TGTCTCTTCA GACCTAATGT ATTATCAGAT ACACTG CAA CTTTTTGCCA
 298051 GCTCAGTTT TTTTATATA TGCTTCTATA TACATTATTT TATTGTGCA
 298101 TAAAGCTTCT TCTTTTGTGT TTTCAGTAGG CTCTTTAGT CTTAAGCATG
 298151 TGACTGGTAA AATGAGAGAA ACCGGCAAGT ATTCTA TGA AGGCCACAAG
 298201 CCTCCACAT GCAAGTGGGA CCAATTCAT CAGGCTAAAC AGACTATACA
 298251 TGGTATTTCA GATGCTAT CTATTTTAT TTTTATATA TATTTTGGT
 298301 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298351 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298401 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298451 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298501 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298551 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298601 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298651 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298701 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298751 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298801 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA
 298851 TAAATTTTCA AAGATATTT AAGATATTT AAGATATTT TTTTATATA

296191 TAACATCTCA CTCTTGGGGT AACAATAATG TAAGGGAAAG ATGAATG AG
 296191 GACAGGTCCTC AGTTCAAAGC TTCTTCTDAG TAATTAGTTG AGAAAATTTT

FIGURE 3, page 95 of 173

202401 AGTCCTTTCTA AAAGTATATV TGTGGATCAA TTCTTTGGAA ATTAGAAAT
 202451 ATTTACCCAT AGAAACAATT TTATAAATAA TTGTTAGATC TCCAGGCCTA
 302501 CCCTCAAAAT CCCTCCCTTA TGAA GTCTC GATCTCTGGC GGTCTCCATA
 302551 ATAGTTTTTG ITCTCAAGCTC TAGCAGCAGG AGCCAGCATG CAGGATAAGA
 302601 AGAAAGGAAA GACTTTTCTT ATGCTTACTT CATTAAGCTT TACATAAGTC
 302651 AGCATITGGG ATACTTGGAT CTACTGGCTT TTGCAAGGT TAGGCTGCT
 302701 AAAAAAGATCC TTGAGCTGTT TGCTTGGCTT TTGCTTGGAG CTCTAGGGG
 302751 TCTTGGCACT TGCTCAGATT TCTCTCTCAT TTCTTATGCT AGACTAATCT
 302801 TGCTCTCAAC CTCTCTGGCT CTCTCTGATT ATCATCATC CTTCTCAAGA
 302851 TTCAAGCTGG CTCTAGCTAG TTGTAAGAAA AAGCACTGCA AATGGAACCA
 302901 TTTCTTAAT CAGGCTGGCT CTCTCTTCTG GTTTCTCTGG GGCATACTGG
 302951 AAGAAATGTC TGGGCTGACA CATAAATPAC ACTAATGCTA AGGATAGCTG
 303001 ATGAGCTAAA AAAATAATAA TAAGTAAATA AAATATGCTC AATCTTTTAA
 303051 GAAAGTTTAC AAATTTGCTG TGGGCTGACAT TCAAGGCTAT CTTGGGCTAC
 303101 AGGTAGGCTA CAGGCTGAGG GGTCTGACAA GTTCTTAAAT GATTAAAGAC
 303151 AGCTCTGAAA GTTCTGGCAT TTTAAAAATA GTTATTTGTT AACTTAAATA
 303201 GTTGGAGCAG AAAGAAATTT CAAGCTGCTG AAATTTCTAT TACTTTGAT
 303251 AAGAGGCTAT TCTAGAGGCT AAAAGTCTGA GGAAGCTGCT TTGAGGCAAT
 303301 TCTAGAGGCT AGCTGCAAGG AGTCACTGAG GAGTCTGCTG ATTTTAAAGCA
 303351 AGTCTAGCTT TCAAGCTGAT GGTCTGAAAT TCTGAGCTCT CCGTTTCTCT
 303401 TGGAGGAGCT ATGCTAGCTG TTGATTTGCA ACTGAGTCTAT AGCTTTGCTT
 303451 ATTCTCTCTC CACAGAACTC TAATGAAATA TAGCTTACTA GCTCTGTAAT
 303501 TTTCTCTCTA GAGAAATATC GTCTGGAAGA CTAGATCTCT ATGAAGAGCA
 303551 TCACTAGGAC AATAATATAG ACAAAGCTTT GTCTTATCTT CTAAAGAGCA
 303601 TAAAAAGCAA ACAAAGCTAT TCTAATTTGG AGCTCTGAA TTTTGGAGAG
 303651 AAAAGAGAAAG AATTACTGTA ACATATATAA CATAGAGTCA ATAAATTTAC
 303701 ATTTTATGTC CAATAAATTA AAAGAGAAAA AGCAATATAAG TTGCTTATTT
 303751 TTAATACTCA GATGACATGA GTTGGCTTCA TTTTCTATAC AGCTATATTT
 303801 TATAGAGATT CAGATTTAAT CAAAATTTAT AAGAAATGG TAAGCAATTAT
 303851 TCTAGAGAA TTAAGAAATA TATCTTTTAA AAAATTAAGT ATTATAGGGA
 303901 TGGCTGCTGAA AGCAATAGA ATTTGATATT CTGCTTTTCT CACAATGCTG
 303951 TAAGTGAAT TATTCTTAA GCTTCTCTGG AAGAGCATAT GTATTTTAAA
 304001 TGAATAGGCT ATGCAATAAA ATATGAAGTA AAAAAAGATCA AATTATTTT
 304051 TAATATAGT GATCACTTAA GATAAAAT TCTTTAAGAG TATATTTCAA
 304101 TTTTAAATGTT ACTTGATAGT TCAGAAATGAA GGCATATTTT TAAGTAAGAT
 304151 TCAATTTTAA TCTCTTAGG GTCCACTTTT ATTTCTAACA CTCACATAAT
 304201 TCCAGTGAAG AAAGAGAGG GCGTGGCTAT GATGCTCATC ATTAATTTTG
 304251 AATATGCTGAC GGAATATGAA AAGCTGCTCA TCCAGAGAG GGTAAAGCTA
 304301 ATATTAGCAA TCAAAAGCTT AAAGCTGAAG TAAAGGCTAA TGTGTACTCA
 304351 ATGCTCTTGA CAATCTCTCT ACTGAGTCA TTTAATACA GTCTTCAATT
 304401 CAATTGAGTT CTCAAAATAT CTTTATATTT GAAGTAAAAA AATTTCAGAT
 304451 GAGTAAGCTA TTACCTCATG TTACCTTTTG CTAGCTTCCA AAATTTGCTG
 304501 GGTGCTCTGA AAGCAATTTA ACTTGGATAT AATATAATGT ATTTAAGCAG
 304551 TCTCTGATA CTTGAGGAG ATTTAGGCTT TTTTCAAGT TTTTCTGTA
 304601 GAAATATGCT CAGGTAATAT CTGCTTATG CATTTTATA TGTATATTAT
 304651 TGACAAATG TATCTTCAAG GTCTTTTAA TGGCAATCTT GGTCAAGGCT
 304701 TCAATCTTAT ATAATTTTCT CAGAACTCTT CAATTTCTT TCAATCTT
 304751 TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT
 304801 TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT
 304851 TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT
 304901 TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT
 304951 TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT TCAATCTT
 305001 AATGTAGCTT GCAATAGCT TACCTAGAAA ATAAAGGCTG TTTTATCTTT
 305051 TTGATAATTT TGTATTTTA AAGGCTTTTT TGGTAATCTG TCAAAATTTA
 305101 TAACTTTT CTCTTATGTA TCTGAATTTT TCAAGATAA TTAAGAAATG
 305151 TTTTCAATCT CCAAGCTTCT AAATAAATCA GTTCTTTTCT CCGCAACTTG

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

FIGURE 3, page 97 of 173

305551 AACTTTTAAAA GCAAAATTTT TAGAATTAAG AAAAATTATTT TAATATTTTT
305561 ATTGGATTGA CATTAATTTGT ATAAATTAAG TTGAATATAA TTGATTTATC
305571 TATAATTTTG TAATTTTATTT CAAAAATATA ATATTTATTT TTATTTTATA
305581 AGTCTAATTT TGGTGTCTTT CAGGAATTTT ITAAAAATTT CTTTACTTGT
305591 TTACTTTTGT TTTTGGTATG TAAATTTTGT TGTGTGTGCT ATTATAAATG
305601 GAACTTTGTG CTTATATATAT TTTCTTATAA AAGTAACTTT TGTCTGTGAA
305611 TACATTAAAT TTACATCCAA CTATCTTAGT TAATTCITAG TTTACAGTGA
305621 CTTATACATG GACTTTTATTT AATTTTTCAA ATATTCTATC ACATAAAATA
305631 AAAATTGTTT TATATTTGCT TTCCAATGTT CTACATCTCA TASTTTTCTC
305641 TTGTCAAAAT GTGCTGGCTA TTACTTGCAA GGTATCATTG AAAAGAAATC
305651 AACAGTGAAC ACCACGCCCT TGTCTGTGAT TTTGTGCGAG TGCCTTTAAT
305661 TCATAACATC CCAATTAATT GAAATAATTA CATGTGATTT GAGTTSTATG
305671 TGCTTTTATTA TTCTAAGAAA GTTCTCATTC ACTTAAATTT TTTAAATAATG
305681 GGTGCTGAAA TTGTAAAAAT GCTCTTTTAA GCTCTGTGAG AAATGASTGT
305691 ATTATTCTTT TCTTTTTTTA AAAATATATTT TTATAAATGA AGTTATTAAT
305701 ATGAACCATG CTTGATCTCT TGAAGAAGA CACATTTGGA CATGATATGT
305711 TTTCTTTTGT AATATGTTGT TGGGTTCTCT TAACGCATAT TAATTTTGCA
305721 ATTTGTCATC ATATCCAATA GGGAGATTGA TCTATAATTT TTGCTGTCAT
305731 ATGTGCAATT TTCTAAGGTG TTGGTATCAA TATTATAATT CCTTCAAAAA
305741 ATAATTGAGA GTTCTTCTCT CTTTCTGTAT GCTATTGAAG CATTTAAATA
305751 GTTTGAGGAT TATCTAAGCT TTAAGATTTA GGTGTGATTC CCTTTAAAG
305761 TCATCGAGGT ACTTATTTGT GGTAAATGTT TGTGAAGTAG CTCTTGGACA
305771 AATTTATTTT TCTTCTTTAA TAAGTGTCTA CTCAAATTTT CAATTTTAA
305781 TAGTTTCTAG TTTGCTAGAG ATTATTTCTC TAGAAATTA TTTCAATGTA
305791 TATTTAAATTT TTGTTTAAAT AGAATTTATG AAGGTAGTAT TTTATGATTT
305801 TTTAAAAAAA TCTTCAATTT CTATAGTTTT TTCTTGAAAT TTCTTATTC
305811 TTTTATTAAT GTTTTCTCTA TTTAAATTTG TTGATTAATC AGTAGCTTTT
305821 TTCCCAAGGA CTTTAACTTT TATGCTTTTA TTAATTTCTAT TAGTTTTTAA
305831 ACTCACAAAA TTTTGGCTTT ATATGCTTAA TTTCAATTTT ATCAGCTTAC
305841 TTTGTGCTCT CTTTCTTATG GATGCTGATTT ATTCTCATTC TTTCAATTTT
305851 TTGGTATATG ATTTTAAAGG TATATATTTT TATCTAAGCA CTGTGTAAAG
305861 TATACCCCAT GAATTTAGAA AGGTAATATT ATTCTTCTTA GAAATATGCT
305871 AACTTTTGTG TTTCTAGTTT TTAAGTTGAG TTGTTTAAAT TAGTTTTTAT
305881 TTTTCCAGTA GGAAGGTAT TTTTAAAGTA TTATTTTTTG TTAAGAACTT
305891 CTGTTTTTAT TGTCTTACAG TCATAAAATG CTGTTTTGAT TATTCTCTT
305901 TTTGTAATTT TGTAAATTT GCGGCTGCTT TATATTGTA TCAATTTTCA
305911 TTGATATGTC ATGTGAATAT GAAAAAAAG TGATATTACA GAATAATGAG
305921 CTACAAAAGT TGATATCTAC TTTTAAAACT CTGCTTATTT ATTATGCTGT
305931 CTTCTATATC CTTACTTATTT TCTCTCTCTC CAGATATGTC TTGGATTAA
305941 GAAAGTGTAT TAAAGTTTTC TACTGTTAGA ATATTCTTG GTATTTTPCA
305951 TTCTCTCTCT TGCAATTTCT GTTTTATGAA TATGCTTCT CTGTGTTAT
305961 TCATAGATAT TCATATTTCA TAGGTAGCCA TATATTTTGT TATTAGTATA
305971 AATTAGCATT TAGCATTACA AAGTATCTCA TTTTTGTTTA CTAATTTTCC
305981 TTTAAATTTT TACTGCTATC TAAATATGA CACTTGAGTC TTTTCTTTTT
305991 TTTATTTT TTTTCTATTT TAAATATAT TTTTATGCT TTTCTTTTGT
306001 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306011 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306021 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306031 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306041 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306051 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306061 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306071 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306081 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306091 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306101 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT

306111 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT
306121 TTTTCTCTCT TTTTCTTAT AATGCTGCT CTTTCTATG AATGCTGCT

FIGURE 3, page 98 of 173

311851 TTAAATTGGA TTTCTTCTTT TTAATTCTTA TGTACGCGTA TTCTTTGAG
311901 TCTTTCCACC TCTGTAAAG TATTTCAGT ACCATTTGTT CTTCCTTTA
311951 CTCTACTTTT AAAAGGTGTT TGTTCCTGCT CTGCGAGCTG CTTTAAATAT
312001 TCATTCCTTC CTAGTCATCT CTATATAAGC TCTTAGGCGA AATTATTCT
312051 TTAATTAGAG CTAAAGAGC TTCTAAAAA TCAATATCTT CAGTTGATAT
312101 TTTCTCTTAG GTTACTTAC AAGCTATAT ATCTGACTAG AATCTCTCT
312151 TAAAGATTTT TAGTATTTCT GGGCGATTTA GCAFTTCAAG CTAAGAAGCTG
312201 TCTTTCTATC TTAGCTAGC ATGCTATTTCA TCGGACAAA AACTCTCTCT
312251 TTTCAATACAT TATGAATAST TATTATCCAA AGTTCGCAAG CCAAAAGCTG
312301 TGCATATAC TAACTTCTCT CTCTCTCTCTA ATCTCTTATT CTGCAACCA
312351 AGGCTAGGCT AAGCTATAT AACACATCTC TTAACATCT CTCTCATATA
312401 TCCCACTATA ATCTCTCTAT TCAGAGCTCT AACACATCTT TCTTGGAGCTG
312451 ATATAATAST CTCAATATTA STATCTCTCT TTAAAGCTTC TTTCTCTCAG
312501 TATTACATCT TATAATGCTG TACATCACA CATAATAGTC CACTGTCTAT
312551 ATCTTTTACA ATGGCTCTCT ATCTGCTAAA ATATAAGACT CCAAGGCTCT
312601 ATGCAAGGAT AATAAATCT CCTATCTATG ATATAGCTTC TGATACCTCT
312651 TCAGCTAAT TTTCTATCAC ATCTATATTT TTAGTCTGGG TCTCTTAAAG
312701 CTACCATCTA CTCTATCTCA CCTAATTTGT ATCTATCTGT CTGCTCTCTA
312751 CTAAATGCT TTTCTCTCTCT TACCATCTCT ATCTCAAGG ACTCTCTCTC
312801 TGTCTAGCAT TCTCTATCTCA CCTCAATCTCT TCTCTCTCTA TCTATAATCT
312851 TCTATCTCTT CTCTATCTCA AGCTCTCTCT CATCTCTCTG CTTAGTAAAG
312901 AAGTAACATG AATGAAGAGG GCGAGGATTA AAAATATAGA GAGAAGTGA
312951 TACTGAAAA TCTGGAGAGA TCTCTATCTT ACTTGAAGTG GCGCATAACT
313001 TTTCACTCTT ACTCTATGCT AGGGAGCTTT TATTTCTCTC CATATAAGCT
313051 TAAATCTTTT CAAATAGTAA GTATCTAATA CATCTCTCTA SAAGACATAA
313101 AAAGTATTTT TTTCTCTTTA ATAACTAAGG TACTTTCTCT CTAAGTAAAG
313151 TGCATATCTG AGATCTCTCT GCAATCTCTT TCTCAATCTG AGACCATCTG
313201 TATCACTCTG CAATCTCTTT GAAGTCTAAG TCTCTCTCTG CTACACCTGA
313251 ACAATCTGAT CCGAAACACA GAAATCTAAG AAGCTCTCTT TTAACAACTA
313301 TTTCAAGCTA TTTCTATGCT CAAGAACTTA TGAAGAACTT GGTCTAGCTT
313351 AATGAATGTT TACCTAGAAC TATAAATAA AATCTTAAAGT GAAATAAAT
313401 STAAGAAATA AACTAAATTT TCTGAAGTAT CTTATAGTAA TTTTAAAGT
313451 TACTCTTTCT ATTTAATCTT ATTAAGGATT AAAGGATATC CATCTCTCTT
313501 GAAAAGATTA AATTTACACT TTTCAATCTA AAGAGGATTT TACTTTTACG
313551 TTTACTAAAA TTTTCAATTT TTTTAAAGG TTTCACTGAA GCTAAGCTTA
313601 ACCACACAAA ATTAGCTTGA TAACTTAAAG AATTATCTAG CTAATTTAAA
313651 CCAATAAAAA TTTATCTATA TGCTTTGAGC TCAATCTCTT AGATAATTGA
313701 CACATAAAAT ACACATTTCT CTCAATAGCT ACATTACTTC CTCAATTTCT
313751 TATCTCTGTT TTTAGACCTC AAGCTAAGGA CCAAGAAAT TTTCCATAGA
313801 GCTGCTCTAT AAGAGGCTTT TTACAGCTCT TTTACTATTC TCCACTGAG
313851 CTGAAGTCTA TCTTTATTTT TGAAGATGAA GAGCTCTAAT AGTAATATAG
313901 TTTCTCTCTT AGTAAGCATT ACTATAGAAA CATCTCTTTT TTTAGATTA
313951 TTTAGTTAAA GGTTTTATAC TGTAACTAAT GTTACTATT CTCTATGATT
314001 TGGAACTTTT CTCTTTTAA AGATTAATTT TGACATAGAA AAAGGAACTA
314051 TGGATCTGTT CCAAAAAAG AATCTCTCTT AATTTTCTT AATTTTCTT
314101 AAAAAATTTT TCTATCTCTT TCTCTCTCTT CCAAGGATTT GAAATCTTA
314151 TTTATCTCTA AATTAAGAA AATTTCTCTT AATTTCTCTT AATTTCTCTT
314201 TTTATCTCTT TTTATCTCTT AATTTCTCTT AATTTCTCTT AATTTCTCTT
314251 TTTATCTCTT TTTATCTCTT AATTTCTCTT AATTTCTCTT AATTTCTCTT
314301 TATAATTTCT TACGCTCTCT TTTACTGAAA TCTCTGAACA TAAATTTCTA
314351 AGATTTCTAT GACATTTATC ACTTCTCTAA TCAATATCTT TGTGATTTCT
314401 TATGCTCTCT TTTACTTTAA TCTCTTAACT CCAATCTCTT CATAAGCTGA
314451 GAGAGGATTA TCTCTCTCTA GAGGCTCTCT ATGATTTGTT TAACTCTCTA
314501 AATTTCTCTT AGATTTCTCT TTTTGAACA ATATGAAAT TTTTCTCTT
314551 TAAAGGAAAT TAAAGGAAAT AATTTCTCTT AATTTCTCTT AATTTCTCTT
314601 TAACTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA

FIGURE 3. page 100 of 173

315001 TTGCTCTTCTG ATATCTTTATT AACTTCTTAAA GCATCTTAT TCTCTGACCT
315002 ATACCTTATT CTGACACTCT CTGCTCTTCTT GAAAAATCAT AATAAAAAT
315003 TCGTCTTTTTC ACAGCTCCAGG GGGCATTAAG GAAACCTGCT AATATGTGAT
315004 GTTCTCTCTCT GGACACCCAGG CTTTAAAAATT TCTCTTTTTC TACTCTGTCT
315005 TTATTATTCTT CAGACCTGGCC GACACTTAGG GAAAAATAGAA AAGAATCTAT
315006 TTGAAATATT GGGGGTGAAT TTCACCCGAT ATCTGGCTGA ATTTCTCCCG
315007 ATAGACTAAA ATACTATTAT TATTATTAAT CATGATGTT AATGAATGCT
315008 GAATTTGCTA TAACTACAGC AGAGAGCCCT CATCTGAGTA TCATTTCGAA
315009 TATTGTGTTA GGTAGCAACA CCAATCCAGG GACATCTCCT ATTCATACAT
315010 ACATACAGCA TTTCCTTAAT TGGTCTCTGT ACCAFTTGTG TTTGGAACAG
315011 TCCATCAAGA TAACTCTCTG TTATCTATG ACTACATGAT CATCTATGCT
315012 GAATTTTGCT TAACTCTTA TCACTTCTAC AGGACTTGAA TGGACTTTT
315013 AATTTGACAT TTAATAATG AAGAAATCTA TCAAAAAGAA AGTATGCTA
315014 TCGCATGCTT TGATTTATTA AGCTGTATAT TTAAGCAGAT AAAAACTTAA
315015 TTAGGTGTAT ATTAAGCTGG TGTGTCTCTT TCTATTCTA ATCTCTCTCT
315016 ACCTGAGATG TTTAACTCTA AGAGGCTGAA ATCACTCTAC CATCTTCTCT
315017 TGTCTCTCTG CCACTCTCTG TTATCTAAAT TCACTCTCTT GCTCTCTCTG
315018 CTCTCTCTCT GACCTCACTA GATCACTAAT AGCTCTCTCT AATATCTCTG
315019 AACTTTCTCT AACTCTCTTA CCGGAACTCT GTTTCTCTCT TCTCACTCTCT
315020 GTAACTCTCT TAACTCTCT CTACCTCTCT CATCTCTCT AACTCTCTCT
315021 TCTCTCTCTT AACTCTCTTA TTACCTCTCT CAATTTCTCT CTATCTCTCT
315022 TGTCTCTCTT AAGATCTCT TTTCTCTCT GTATCTCTAT AACTCTCTCT
315023 ATCTCTCTCT ATTCTCTCT TTTCTCTCT TTACCTCTCT GATCTCTCT
315024 TTTAAAGGAG CTCTCTCTTA GCTCTCTCT TACTCTCTCT CTCTCTCTCT
315025 TGTCTCTCTT TTTCTCTCT TCTCTCTCT CTCTCTCTCT CTCTCTCTCT
315026 CCACTCTCTT CCACTCTCT AGGGCTCTCT CTCTCTCTCT ACTCTCTCT
315027 CATCTCTCTT TAACTCTCT CCGCTCTCT GCTCTCTCT TCACTCTCT
315028 ACAATCTCTT GATCTCTCT ACCAGCTCT AGGCTCTCT ATATACTCT
315029 CTACATCTCT AGGCTCTCT GTAGGCTCT CTCTCTCT TCTCTCTCT
315030 CTCTCTCTT ATCTCTCT TAACTCTCT AGGCTCTCT GTCTCTCT
315031 ATCTCTCTT ATCTCTCT ATCTCTCT TCTCTCTCT TCACTCTCT
315032 AATCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT GAACTCTCT
315033 ACCTCTCTT TAACTCTCT AATCTCTCT CCGCTCTCT AGTCTCTCT
315034 CATCTCTCT ATCTCTCT ACCAATCTCT ACATCTCTCT TTTCTCTCT
315035 AATAGCTCTT TCTCTCTCT ATCTCTCT TAACTCTCT GCTCTCTCT
315036 TGTCTCTCT TCTCTCTCT TACTCTCT TCTCTCTCT AGCTCTCT
315037 TCTCTCTCT TCTCTCTCT GCTCTCTCT TCTCTCTCT AGCTCTCT
315038 GGTCTCTCT TCTCTCTCT TCTCTCTCT AGCTCTCT AGGCTCTCT
315039 CTCTCTCTT ATCTCTCT TTCTCTCT GTCTCTCT CCACTCTCT
315040 GTAGCTCTCT GCTCTCTCT GCTCTCTCT CTCTCTCT TTTCTCTCT
315041 TTCTCTCTCT GCTCTCTCT CATCTCTCT CCACTCTCT TCTCTCTCT
315042 TCTCTCTCT TCTCTCTCT AGCTCTCT CTCTCTCT ATCTCTCT
315043 TTTAATCTCT ATCTCTCT AGCTCTCT CTCTCTCT CTTCTCTCT
315044 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315045 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315046 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315047 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315048 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315049 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315050 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315051 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315052 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315053 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315054 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315055 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315056 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315057 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315058 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315059 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315060 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315061 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315062 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315063 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315064 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315065 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315066 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315067 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315068 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315069 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315070 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315071 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315072 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315073 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315074 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315075 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315076 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315077 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315078 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315079 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315080 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315081 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315082 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315083 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315084 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315085 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315086 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315087 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315088 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315089 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315090 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315091 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315092 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315093 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315094 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315095 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315096 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315097 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315098 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315099 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT
315100 TTTAATCTCT ATCTCTCT ATCTCTCT TCTCTCTCT CTTCTCTCT

FIGURE 3, page 101 of 173

318151 TGAATGGAAT TTTCTGCATG AATTTGJMAA AATATTTAAV ATTTTTCAT
318201 GTATAGATT AAGTGATAAT TATAGACTTT TCACAGAGAA AGATGATGGG
318251 AGTATCTATG TTTTCTTGGT TAAGAAOCAA AAAGTTGTTA GTTACATATG
318301 CAGGATGGA TGAAGATGCA GATCTTAAAT TTATATTCA CATCTTCACA
318351 AAAATGACAT GTCTGAGAA A JACATTATA GTAGTAGTTA ATTAIACTA
318401 CTATAACTAT ATTCATGCAT ATTAAOAACT ATATTCCTT TTAGATGAAA
318451 AGGATGCTGT TAAACAAAT TATAATCATG TAAGTAGTTT ACCASTACTT
318501 GTAATT TTTT CTGAAATGT GTAAAACTAT CTGAAAACT TTATCTGT
318551 TCTTTTATTT CACATTTATT GAGCATATA STAAATAGGT TAAATAGTAT
318601 TATTTTAAAT TATTCAGTT A JAAATCAAA TATAATAAAA TCTGAASACT
318651 TAATTAACAA GATTCATTTT CAGTCTTAA ATTCATAACA GATTAACACT
318701 CATCTATCTT TATATCTTCA T GCTTAAAG TGTATACAT GAGCAAAAT
318751 CTCAATCTGC ATCTCTTCTG GATGAACTCT AGTTAGACAA CTAAATCTGT
318801 AATGCAATAT AACATGCTCT TATTAACTTA GTGATGACAA AAAGACATC
318851 TGTACCAAC TGGATATGAC TAAAATATAG GAATAAACTA AATCTCTATG
318901 TGCTAAT TAA TTTTAAJAAAG C JASTGAATT GTTTTITAAA GAGGA CTGT
318951 AAAGTAAATG ATGAAAAAT AATAAAAGTA GTCTATGACT TTCAATCTAT
319001 CTAACTAAGC TTG JAGAAAT GATTCTTAAA CTGCTTTAAA ACTCAATTC
319051 ATCTGATTA ARGACTAATC AATTAATCTT GATGCACTTC ACTCATTTTC
319101 AACTCTGAAA TTAATCTGAGC ATATAAAAGT TATTAGTAGA CATATCTAGC
319151 AATGCTTGA AAA JAGTTCT CAGGATGCA TCTTACTTAA TCTTATTTCT
319201 GACATCTGCT TACTCTTATC TTTCTCTTAT TAATCCAAG TCTTATCTTG
319251 AATCTATCTG TGGTTCTCT G JACATCTCT AGTCTTTTA CACTAGAGAG
319301 AAGTATGAAA ATGATCTTTA CTAGAGATA GGAAGGCTAG GAGGTACTGG
319351 GGTG GGGAT AAAGCTG GGA TAGCTAATAG GCAOCAAAT GTACTTAGAT
319401 AAGAGCAAT AGATCTCTCT TTTCTAGCA CTTAGACA CAATACTTA
319451 AATAATATTT AACAAATAT TCAAAATAAG TAAAGAGTA GAATCTGAAT
319501 GTTTCTGACA CAAAAATGA TAAATCTCTG AGATGATGCA TATCTCAAT
319551 ATACTGATTT GATGATTA CAATCTATTC TTGATCAAA ATATCACTG
319601 CACTCTTATA ATATGACAA CTCTATATCC ATAATACTTA ATAATAAAA
319651 TCTTTAGTTC TATGCAATG ATTTCTCTCA CTATTAATCT CTAACDACA
319701 AATGAAAGCT TATAATATA AAGTCTCTTT CTCAATCTCT CAAATTTCTCT
319751 GTAACTAGTG TTTTACATA ATTTCTCTCA TGAGTTAAAT CAACTAGAGA
319801 GGAAGTGGTA TAGAGTTTAC CATTTCTCAT GAATCTTTGA GTTCTACTCA
319851 ATCAACTTTT TTTCTTAAAT ATCACTCAGT ACAATCTAG GAGGTTAAGA
319901 TCTCTAAT ATATGCTCA AAGCAATTAA ATATTCTAGT TTTCTCTAG
319951 TCAAAATGGA GCATCTCTG AGTTCTGTT AGAATCTGTT TGTGAAAAT
320001 CATTCTACAT GCAAGTCTAT TCACTAGAG CTGGGACTCA ATGCTAAGTA
320051 AGCAAAATAG CTTGGGGGCT TGGCTTCTG AGGCTATGG GCGAGTCTG
320101 GAAAAATGT TAAACAGAAA ATCAACAAGT GCATAATTTT TAACTCTGGT
320151 GAAAGCTATG AAAGGCTGCT TAACTGTTT AGAAGGAAGG AAAAGCTTAC
320201 CCACTGAATC ACTTTCTGCT TAAAACTAA AGGATGAGCT CAGTAGGTGA
320251 ACTAAAAGG ATCAAAAGGA AAGAAGCCAT GAATCTGAAA GAAGCACAGA
320301 CTGAAAGCTT AATTAAATCT CTATGATCT GATTTCTAA GAGTAAATA
320351 GAGGCTGAAA GTTCTAGAT GAGGAACTT TCTCTCTCA TCTCTCTCA
320401 GAACTTATTT GCTTAAAGCT GAGGATAGCT GAAAGCTGAA ATTTCTCAAT
320451 AATTAATA ATTAATAT AATTTTCTT TCTTAAATA TAACTCTCT
320501 CTCTCTCTT TAACTTAA TAACTGCTT CAATCTAA TAACTCTCT
320551 CTCTCTCTT TAACTTAA TAACTGCTT CAATCTAA TAACTCTCT
320601 TCACTTAA TAACTTAA TAACTGCTT CAATCTAA TAACTCTCT
320651 TTTTITATAG AGATGGGGCT TCTGCTATC TTGCCAGAT TCACTCTAAA
320701 TGCTGACCT CAAGAGATCA TTATGCTTT TCTTACAGAA GTGCTGGCAT
320751 TACAGGCATA ACCCACTGTG CTCTCTCTT GAATTTTTTT AAACATAAAA
320801 ATTTATTTT TTAAGGCTG ATTAATATCT TAACTGCTT AAGAGTGATA
320851 GCAATTTTCT TAAAGAAAT ATCTTAACTA GTATATATG GTCCTCTAT
320901 TTAAGAAAT TAAAGATCA A JAAATGAAA ATTAATATCT AGTCTGAA

318151 TGAATGGAAT TTTCTGCATG AATTTGJMAA AATATTTAAV ATTTTTCAT
318201 GTATAGATT AAGTGATAAT TATAGACTTT TCACAGAGAA AGATGATGGG

FIGURE 3, page 102 of 173

321401 AATGCGAGAG TATACTGAAA ATGGAGAAAT GTTATTAJST TTTTAAAGTG
321451 TTCTTCCATG TTTTAGAAGC ATCTTCAATG CATTGAGAAA AASTTCATAA
321491 TAAATATATT AAAGATAATG GTGTCTATGA CATTGAAATA ATATAAGAAG
321451 GTAGTTAATA TTGCAGCCCA AAGATTFAAG TTGACTBACC ATAAGGTCAG
321401 TGTCTAATTG TAAAGCATG GATAATGTG AACTGAA TA CTCTGGGAAC
321451 AATGAAAAATG ACAAATCTTG CATTCTCTTG TAAATGATAC TTAGAGAAGC
321401 TTTGGGTTAC AGATTATGCT TTGGATACTT TCTGTAATST TTTTATSTTC
321451 TTTAGGAGT GGAASTTTTA CTCTATTAGT TTTTATASTT TATAAACAAA
321401 TTTATGCTTG ACATAAAAAA AGATACATAA AGAAATATGC ATACATTATA
321451 TCTCCCTTCT TCCAAAACCA CCGACTGAGC TAGTCAATAT TAAAAGTTTG
321401 AATTTTFTAT GCAACATATA TCAACAAATA TAAGCTTTTG TCTTTTIGAT
321451 GAAATATATG TCAACATATG GAGTTTAAAG TTCTTTTFTT TACTTAACGT
321401 TATATTTGAG CAACCTTTTA AAGAATATCA TAGGATTCCA AATAATAAAA
321451 ATGTCATAAT TTATTCAGTA ATCTCTCTTC TAATGGATAA TCCAATTTT
322001 TTTAGTTTTT ATGCTTTTG C AATATCCCAT ATCTCGATTA CTGASTCAAA
322051 ATAAATGTAT ATCTTTTCT C ACTTAAATAG ATCTCTTCCA AAGACTTTCC
322101 AAAGAGTTTG TAGCAATCTG CAATCCCAAC CCGAAATGT CAGAACTCTC
322151 CCGAGCATTC CTAGCATCTA CTGATCTCTT TCTTTCTTTT CATTTACTCTC
322201 AAAATTSAG ACTAGAAAAA TTATATCTTC TTCTATTACT TTGAGTTT
322251 TACTACTAGT GAGTTTATAT ACTTAACAAT TAAAGTTTAA TATTTTAAAG
322301 TTATTTTTAT TAGTTAATAT TTTAATTTT TAACTCTGCT CTTTAAAGTT
322351 TGATTTTAT TGTCTCTCTG TCGATCTAGC ACTCTAGAT ATACATAA
322401 TTATATGCA TACTATCCAA TTTTGGAGCA AAAAAA AAAACA AAAA
322451 ACAGGAAAAA GAAATCTTA CAGTACAGT ACCTGCTCT TTAATAA
322501 AAGTCTTTAA GAATTCGAGA TGGAAATGATA AACTCTCTAT ACAGAGTTGA
322551 CCGACTTTT CCGAODCAAA CTGAGCTTAC AATATTTATC AATACAAATA
322601 TTCTAAATAT GCAAGGTCTA TTCTTTAAT CACTCTAGT CTTCTCTGCTC
322651 TGCTTCAATA CATTAGCTCC CACTGAGTCA TACTGTATG TAGGCTATAC
322701 TCACTCTCTG GTCTATCCCT GCACTTATGA TGGCTTAGAT CATATATCT
322751 TAAACTCTG TTCTATCTCT AATTCTCTA GAAAGTGGG TGTATAGTGG
322801 ATGAATGTTT TTATTTTATT AAAACTAAAA CTCTCATGTC ATCAAAATAC
322851 TTTTATGTA CTGATGTGGA TCTAATCATC AGAAATATGA TAAATTTATG
322901 TACTGTTTTT TTGCTATTTA TATCTACTT CACTTTGGTC TCAGAGAGST
322951 TTCTTCAAT ATCTCTTATT CCAACTATAA CCAATGATTC AAAATTTATT
323001 TTACTGCTG TTTAAATATG AGTCAACAAT GTTTGTTTTT GTTACAGGAT
323051 ATATCATTTG CTTTATAATA ATGCTCTCTC CTCTCTCAT TTATAGGAA
323101 ATTTTITGG TTCAAAATCC CTGGCTCTGAG AGTTCTCACT TACAGAAAGC
323151 AGTCTTATC ACAAGAAGAC CCGATGTGG TGGTCATGGA TCTATCTAAA
323201 CACAGTGAIG ATTCACTAGC CATGAAGCAT TTTAGTCTC CTACAAAAGA
323251 AAGCTCCAGC CCGCTGGAAG CAGATGAGAC AAAAGCTTTG ATACAGDCA
323301 GCAATGTTT TCCCTTGGTG AATATATCCG GAGCTCTTGA CCATTCTCT
323351 CCGAAAGGC AATGGGACCG ACTETACCT CACTGCTGCG AGTCAAGTTC
323401 CCACTGCTC CATTCCAGAT CAAGCGAAAG CTATGTAGT ATACGGAGAG
323451 TATCTCTCT TATGATATA AAGCAATTTT GCTCTTATC TAAATAATA
323501 TTTAGGAACT GATATGAA AAGCTCTCTG TTTTATTTT TTCTAAATG
323551 AAGCTATAT TATGCTTAA TAAATGATTA TTTCTATATT GTCTGAATT
323601 TTAAGATTA TCTCTCTTA TAAAGGAAAG AATCTTCTT AAGCTTATT
323651 AAGAACTTA TCTCTTAT TAAATTTCTT AATCTTCTT TCTTTTAA
323701 TTTTAAATA TTTTAAATA TTTTAAATA TTTTAAATA TTTTAAATA
323751 AGTATGATAA CATTATTTT CTTATCAGAT GGAGTSTTAA TTAATTAATG
323801 CTATATTATA CATGTGCTTA GGTAAATGAAC ACTATCATCT CAAGCATAGT
323851 TAATTTTGCT GCATTTAGCA AATGATCATG CCTTGGGAAG AAAGAATTTG
323901 TGGCATGAGA GGGCTAGTTC ATTGACCGAC TCTTTTCAAA GCGAGCAGCA
323951 TGAAGCTCT TGTGTAATA CTGATGAGAA AGCTTAAAG TGAAGAAGT
324001 TGAAGTAA TATATTAAG TGAAGAAAT TAAATTAAG AAAATTTTA
324051 AATCTTCTT TCAAAATAA ATGCACTTAA AAGCTTAAAT AATAATTTAT

324101 AATCTTCTT TCAAAATAA ATGCACTTAA AAGCTTAAAT AATAATTTAT
324151 TAAATTTAT TCAAAATAA ATGCACTTAA AAGCTTAAAT AATAATTTAT

FIGURE 3. page 103 of 173

324451 CAATTAATC CATGCAATCT TTTTCTCCG TACTCTCTG TCTTCCATGA
 324501 AAGTTTCTA TAGGAGGAGT CTGTTGAAAT TCTTGATTTT CCGCAGGAG
 324551 TCAAGAATC AAAGTTCCCG GCATGGGTAC ATAGAGCCCG CTTTCCAGAT
 324601 TCCATAGAT TTGTTTCCTG AGAGACCTGC TGTCCAGGCT ACTGCTAATT
 324651 TTGTTTTTAA AACATTAAAT CTAAATGTGA GGTGTTAGGC ACTTTGTGAG
 324701 CTGATTACAC TTAATTTTCT AGGCTCATTT CTAGCCCGAG CAAGACTCCG
 324751 CTGTTATTA CATACTCTAT TCTAGATCTG CAGAGATATA ACTTGCTTTT
 324801 TCCAAAAAAT GTAACACCTG TTTTCTTCTT TCATTACCTT GTTATTCTTG
 324851 GAATAGCTTT CCTGCTCTTG TCTCTCTTGA CACTAGCACT CAGGAGCAAG
 324901 AGCTCATTTG CCTCTCCCA AACAGAAAGA ATTAAATCAT TTCAACTCG
 324951 GAGGTGCAAA CCAATATTTA CATATACTGT AGCATGGATT GCATTTTATA
 325001 TTTATTGTGT ATTATATCTG TGTCATTTCT GTCAGATATG TAAGAAAGCA
 325051 ATTATGTTGC TGTGAGCCCG TCCAGCATAG GCAGCTCTGGC ATAGTGAAGT
 325101 CTGCACTCTT AGTTTCTAGC ACAATGTCTT ACTTCATGCG AGATAGCTGA
 325151 TAAATATTGG TGTAACTATG AGAAGAAGAT GTGATGTTGA GGGGACTCTG
 325201 TTTGCGAGTT CTGTTTCAAA APCATGCAGA TCAGAAAAAT ATGAGTTATC
 325251 TGCTCCATCA ACTCTGAAG TTAAACAAAG TCTTAGGAGT AAATCATATA
 325301 CAGGATCTTT ACTTAAAGCA CAGCATTAAG TAGAGAAAGC AGAAGAGCTG
 325351 AAAGGAAGAG TTGCGAGGAA GAACTTGAAG GAAAGATAAA TCAATAGCTC
 325401 AGAAAAAGAT ACAAGAGCA TTAGCATATC TATTTAATCT CTTGCTGAAG
 325451 AGAAGGTCAA AAGGAAAAAA GAAAAATCAA GGTCAATTCG GAAATTTGAT
 325501 AATCATCTAA GGCATATCTC CATTTAGTAA TGGCAGGCTT AATATCTTCT
 325551 CACAGAATGA AATGCTAGA ATTTGATCTT TGATGAGTGA CTCTCTCTGC
 325601 TAACAGCGAA CAATAAATCT AATATCTTAA TGCAGATGAG CAGCATATCT
 325651 TTTAGTGAAT TTAGTTAGTG CAGTCACTTT TAGCAATCAT ACTGACTTTT
 325701 CAGAAATGTC CTTTTCAGAG TTGCTCTAGA GAGATCTCTG ACTATAACA
 325751 CTAGTATAGT AAAATTGAAA AAAGAAAGAA TTTGAAAATC AAACTGATAC
 325801 ATAATCAGTG CATTTTACTG ACTTAAGCTG TCTTTGAGCA GTGGTGCTGA
 325851 CTAGTTTAGA TTAGATTTCT TGATTTAACT TGATTTGTTT TAATTTATAT
 325901 CATATCCATT TTACTGACAG TTACTGATAC AATTATGAGA AAGATGATTT
 325951 CAATATTTTT GGAATTTCTA GTACGCTGCG TATAGATAAA CATTTGCTGCG
 326001 TAAGATCATC CTGATTTTTT CCGCTTCAGC CAAAGTAAGC TGTATAAAA
 326051 AAAAATTACT TTCTTAGAGA TTATGTTAGA GTCAACATCT GACTATAGAT
 326101 TGATAAATTC AGAGGGTATT TTCTATCTCA TCTTTAAAGA AATTTTAGCT
 326151 AAAAAATCAC TGATTAGCAA AAAGAAACT ACATTTCTCA AGACTTTTATA
 326201 ATTTGGTATA TTTTAGAATG AGAGGATTCG ATAAGGAAAG ATGGAAAACT
 326251 TTTAGAAATG ATTTTAGTTT TATGAATCTA TGTAACTGAT TAACAGGTGA
 326301 AATCATGCAC AAGATTTTGA AGTTGCTTGG TTGCTCTCTC ATTTGAAATA
 326351 ATAAAAATGT TCTCTCTGAC AGGCTATCTT CACAGAACTT TAAATATTTT
 326401 CAGATATAT TAATGAATAA TATTTTAGCT TATCTCTCA TTTAATCCAC
 326451 ATTATCAAGA ACCTTAGAAG CATACCTTTC AAACATCTT TGATGAAGAA
 326501 CCAGAAATTT GTTTTCTAAT TCATCACTGA CCAATACATT TGTGAAGCCA
 326551 ATAAAAATGT ACTACTGGA AAATAAAGTG TAAAAATAG ACATAAAAATA
 326601 TAAACCCCAA TTGTTTTTAT ATTAGATTGA TTAGACATGA AATTACTCTG
 326651 TAAATGCTT AAAAAAGATT CTAAATATTT AATTGATTT CTCTAATTGC
 326701 ATTCTATGAG AAATAAAGCA ATGATATTT AATTAGATTT AATGAGAAAG
 326751 TAAATCTTT TTTTGAAGT TTTGAGATTT TTTAATATA AATTGATTT
 326801 TTTATATAT TTTTGAAGT TTTGAGATTT TTTAATATA AATTGATTT
 326851 TTTATATAA TTTTGAAGT TTTGAGATTT TTTAATATA AATTGATTT
 326901 ACTAATGCTT TTTGAGCCCA GCTTCTGACA GACACATTCA TTCTGAGTAA
 326951 TCAAGATCTC TTCACTATCT TCTATTGTT TCTTGTAATT CTCTCAAAGA
 327001 CGAAAGGAG TTGTCATCTA AGGCGACACT TTTATTTGTA TATCTTTGTC
 327051 CAATGCAATG TTTACGAGCA ATTCAATATA TCAATATAT AGAATTATTT
 327101 CAGTTGTAAG CTTTGAAATT ATTATGATAT ATGCGAGAT TTTAAATGGG
 327151 CAGATGTTA GTATAGATAT CAAAAAAATG CTGAAGAGAT TTTTCAAAAT
 327201 TTTATATAT TTTAATGCTT TTTATATGAC ACTTAAGTTT ATTTTAAAGCA

324451 CAATTAATC CATGCAATCT TTTTCTCCG TACTCTCTG TCTTCCATGA
 324501 AAGTTTCTA TAGGAGGAGT CTGTTGAAAT TCTTGATTTT CCGCAGGAG

FIGURE 3. page 104 of 173

330751 GATTGTTAAT TTAATCTGAG AGGATTAAT TTTTAAATTT TTTGGGAAAG
330801 TCAATTTTAS TGGCTGTTAG ACAAAGAGCT AATTAAATC GTTCTTTCTG
330851 ATATTTATTC TTTTCCCTTT CATCTGCTTC TATGGACAG AGATACTAG
330901 TGAATATTC TAATCATGAT TCAATATCAT ATAAAAA IA CAGCAAAATG
330951 GTATTTTCTT TCCAAAACT AATTTCGACT TAATCTCTCT TCTTAGGATC
331001 TATTTCTTTT CCGCTTAATA AATTTCTTCA GCATTATGAC TCGTTAAGCT
331051 AAGATTTCGA AATTCCTTGT TAAAAATGTA AACCATTCG AGAGAGTGGA
331101 AAAGTTATTT CAAATAAATT GCACATCTCG CATATACATA TGTATGTATT
331151 ATAATTTTCT AAATAATTCT CTAATATCTG ASAGGGCTAC CTAATCTTAC
331201 CTCACATCAAT CATATATTAA TTTTACCTC CAATTTCTAT GCTTTTCTAT
331251 TTTGGCTTAC AAATCATCAG TAAAAATCTA CTTCACTTCT TCTACTTCT
331301 AAATAAATCA TAATAAATP TTGGCTCTCT AATCTCTCTA CTTCTCTCT
331351 ATCTCAAGTA AGCTCTCTCT CCTCTGACAT TGGTCTCTCT CATTTCTAAT
331401 TACTCTATGA ATCTCTCTA TGAATCTCTA GTAAAACTAC TTTCAAGGCT
331451 TCTTACAGCT TTCTATCTCT CTTCTAGCTA TATGATCTAT AAACAAAAAT
331501 AATGAATCTA ATACAACTCT TTTCTCTAAT GCTCTAATCT CCACTAAGCTA
331551 TATCTCTCTA ATCTCTAAT GATTTCTAAT TCTATTTCTA ATGATACAG
331601 TTTATCTCTA CAAATAATAT GTCTCTCTA TAAACAGATA ATATTAAGAA
331651 AAATAAATCT ATCTCTCTA CTTATCTAAT TTTCTAAGCT CTAATACTCT
331701 TGGCTCTAAT TTAATCTAAT TCTCTCTCTA TAAATTTCTA TTAATCTAAT
331751 TGGCTCTCTA ATCTCTCTA ATCTCTCTA ATCTCTCTA TTTCTCTCTA
331801 ATTAATCTCT AGTTAAATCTA ACTCTCTCTA TTAATCTAAT TTTCTCTCTA
331851 AACTGATCTA TAAAAATCTA CTTCTCTCTA TTTCTCTCTA TTTCTCTCTA
331901 TCAATTTCTG CTTCTCTCTA TGAATTTCTA AAGTCTCTA ATTTCTCTA
331951 TCTATCTAGAT CCGCTCTCTA ATATTTCTCTA CTTCTCTCTA AAGTCTCTA
332001 TATTTCTCTA TGAATCTCTA TAACTCTCTA TAAATTTCTA TCTCTCTA
332051 GTATAAATTT TAAATCTCTA TAAAACTCTA TCTCTCTCTA GCTCTCTCTA
332101 CTAGCTCTCT GTATAAATCT AAGTCTCTCT TCTCTCTCTA AAGTCTCTA
332151 ACTTTCTCTA TAACTCTCTA CTTCTCTCTA ATCTCTCTA TCTCTCTCTA
332201 TTTGGTTCTA CTTCTCTCTA AACTCTCTCTA CTTCTCTCTA TCTCTCTCTA
332251 AAAAAATCTA CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA
332301 AAGTCTCTCT CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA
332351 TATTTCTCTA TATTTCTCTA CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA
332401 TTTTCTCTCT TATTTCTCTA CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA
332451 TCTCTCTCTA TCTCTCTCTA CTTCTCTCTA CTTCTCTCTA CTTCTCTCTA
332501 GCGCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
332551 TTTTCTCTCT TTTTCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
332601 TGGGTCTCTA AAGTCTCTCT TTAATCTCTA CTTCTCTCTA AAGTCTCTA
332651 TTTTCTCTCT TTTTCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
332701 ATCTCTCTCT AGCTCTCTCT AGCTCTCTCT AGCTCTCTCT AGCTCTCTCT
332751 ATCTCTCTCT AGCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT
332801 TTAAATCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
332851 AAGTTCTCTCT GAATTTCTCTA AATATCTCTA TAAAGTCTCT TCTCTCTCTA
332901 CTATTTCTCT CTTCTCTCTA AAAAAATCTA TCTCTCTCTA AATATCTCTA
332951 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333001 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333051 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333101 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333151 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333201 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333251 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333301 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333351 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333401 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333451 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
333501 TAAATCTCTCT TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA

FIGURE 3. page 106 of 173

333901 AAATATTTTTT GAAGGAACIT TTATTAGTGT GATTTTGGTA ATTCTTTGAA
333951 AATTTAATTA TATTTGTTTC AAACATGGT AAAGAAGACT CAAATCTCTT
334001 AGCTTACATA TTTCGAAATA ACAGCTGGAA ACAAGATTG TAAAGTAAAG
334051 TCTGAAATAT TCTATTGCTT ACTCAAATGC CATAGAGAGT GTAGCTGIAA
334101 TTGATATAT CTTCGAAAT CATGAGCAAT TTCTGATAAA GTTCTGAATA
334151 AAATAATAAT TATTCTTACC TTACATGGA AATTGTAGCT CTGGAAATTT
334201 CAATCTATAT TAAAAATATG TAAAAAGCA ATTCTGCTGT TTATATGPGA
334251 AACAGTTAT TTTAAAGTTC APTCATGAA TAAACAGGCT TTTCACCTGC
334301 ATGAATCTGC TCGAGGATG TAAAGCAAT CTTTAAAGGA GCGGAATCTG
334351 GACATCTAAA TTTTTCATA ATTCTGACAA CAAAAAATTC CCCCACAAAT
334401 TCTGCTATA ATGAAAACAT ACCTATAGTT AATTCACATG CTATATAAAG
334451 TGTAAGCTAT TTAGAGAGT TTATTGGCAG TGGTACAAAG GGAATTAATA
334501 TGTGATTAAAC AGTGTCTTTC TGTCTATTAA CATGTAGAA TGGTGTAGA
334551 CATGATGAT CACTGAAAT AGCCAAATTT TAAATAACTC TGTGACAAAT
334601 TTGCTATAAT AATGCAAGAT AGAAGAGAT GATAAAAAAA GAGATGAAA
334651 AGATGAGCTT AAGGGCTTTT GAATACCAAT TAACTATAAT TTGATCTCT
334701 TTTATCTATA APTCTTAAT AGTATCTCTG TTATTAAT AAAGCTAAAG
334751 TTGAAATAT GACATTAAG TTGCTGAAA GACATATCTT AAATAATCTG
334801 AAATCTATAT ATAATTACA AACTGTAAAT ATTAAGATAT AAAACCTAGA
334851 ACTCAATAT AGAATCTCTG AGAAAAGGAA ACAATATCTT CTATCTCTT
334901 ACAATAAAT AAATGATTA TGTGGCTCTG AGATTTCAA AAGGATCTGA
334951 AGAAGGAAAT TTCTGTGAA GAAATATCTG AAGCTATGAT GATTTCTG
335001 CCACTATCTG CTCTTATTTT CATCTTTCTA TAAATACTAA AGAGCTTAG
335051 GTTCTATAT GAAATGAGAA CATATGAGGC AATAAATCTT TGTAGAGCTC
335101 GTGATTTTTT TCTCTGAT TGAATTTCTA ATCTCTCTG ATAAGAAGA
335151 GGGAGTCAAC AATAAGCAA CTGAAGAAAC ACAATATCTG TTAATACAT
335201 GAAAACTTAT TAAGATTAAT TCAAACTTTT ATTAATAATA AGCTGTAAGT
335251 TTTATGAAAT AATATAGCT SATTTTCTCT CATAGTGAAT ATTAACAAA
335301 TATGAGGAT TATTTCTTA CTATTATATG TGAAGAGCT TATTTGATTA
335351 TTCTGAAAA TGAATAAT TAAAGTCTAA TTTTAAAGTG TTTATAGCTT
335401 GCTTGATCTT TAAAGTATAT TTGATCTCTG AAATGAGCTT CATCTCTT
335451 TGAACAGGAA AAAAAATAAC AAAGGCAAT ATGTTGCTTA AGAGCTTTAT
335501 TGATGGAAAT TGTATGTTTT AAAGCTCTCT TGGGGAAGAA AATAGGGAG
335551 CTGAGGATTT TTATAAATTT CTGCTGTCTG TTAATTTCTA AGAGCTAAT
335601 AACAGTATAT GTAAATATTG TCATTACAG AGATCTCTCT CAGAGATTTT
335651 CTGATCTCTC CATAGGCAAC AGACAACAAG TTGATCTCTA AGAAGATAC
335701 AGCTGGTCTG TTAGCTCTCT CAACAAAGAA AGCAGGAGTC TTGCTACCTT
335751 GCGAATTTAT CTTTGTAGGA AAGATTTTGA GAAGGCACTA CTACTATCA
335801 ACGGAGGAA TGGCTATTA CTAGCTCTGT GTCATCTCTA TTTAAGTTA
335851 TGTCTGAGAG AGCATTAATC TTTGCGGTT TTTAATAGCG CTTTTTTTTT
335901 TTCTGAGAA STGGTCAAGA CTTAAACATA AGTGAAGAA AAAAAAGAT
335951 CTAAAAATCT CACATATGAT CCAAGAGTTT TCAATAGAGT ACACACATTC
336001 ACAGAAAAAT GGCCTTTCTC CCTCTGAGC TTATCTCTGA ATTCCTTCAT
336051 CTGCTTTTAA TTCTCTCTAA AATCTCTCTG ATATCTCTG ATAGCTATCT
336101 GAAGATTTAG AAGAGCTTAG ATCTCTCTG ATCTCTCTG GAGAGGAA
336151 GATATATAT AATAATTA CTGAGGAAAG GATCTCTCTG GGAATCTTA
336201 TGAATATAT GATTTTAA ATCTCTCTG ATCTCTCTG TATCTCTTA
336251 ATTAACAGAT AAATCTGCTA TTTGCTCTCT GGTACACAG CTACAAGCA
336301 GTCTTATCTC CAGATCTCA CAGGCTATTC CATGTGCTCT AAGCTGAGCT
336351 TAAAGCTCTG GTCTAGGAT AAGCTGCTCT CATTCAGTCA CACTCAATC
336401 AGGATCATAT TGGTCAGCAA TCATTAGCAG GGCATTGAGA ACTGCTCTCT
336451 CTCTTATAT CTCTTATAT TAATCTCTCA AATACTCTG ATTTTCTTA
336501 GCTTTTAA TATATTAAG TAAAGCTCT TGGAGGCA ATTAATTA
336551 AACTTCAAGA AATACAGAG CATTAAAGG ATTCTCTCTG TCTCTCTAA

333901 AAATATTTTTT GAAGGAACIT TTATTAGTGT GATTTTGGTA ATTCTTTGAA
333951 AATTTAATTA TATTTGTTTC AAACATGGT AAAGAAGACT CAAATCTCTT
334001 AGCTTACATA TTTCGAAATA ACAGCTGGAA ACAAGATTG TAAAGTAAAG
334051 TCTGAAATAT TCTATTGCTT ACTCAAATGC CATAGAGAGT GTAGCTGIAA
334101 TTGATATAT CTTCGAAAT CATGAGCAAT TTCTGATAAA GTTCTGAATA
334151 AAATAATAAT TATTCTTACC TTACATGGA AATTGTAGCT CTGGAAATTT
334201 CAATCTATAT TAAAAATATG TAAAAAGCA ATTCTGCTGT TTATATGPGA
334251 AACAGTTAT TTTAAAGTTC APTCATGAA TAAACAGGCT TTTCACCTGC
334301 ATGAATCTGC TCGAGGATG TAAAGCAAT CTTTAAAGGA GCGGAATCTG
334351 GACATCTAAA TTTTTCATA ATTCTGACAA CAAAAAATTC CCCCACAAAT
334401 TCTGCTATA ATGAAAACAT ACCTATAGTT AATTCACATG CTATATAAAG
334451 TGTAAGCTAT TTAGAGAGT TTATTGGCAG TGGTACAAAG GGAATTAATA
334501 TGTGATTAAAC AGTGTCTTTC TGTCTATTAA CATGTAGAA TGGTGTAGA
334551 CATGATGAT CACTGAAAT AGCCAAATTT TAAATAACTC TGTGACAAAT
334601 TTGCTATAAT AATGCAAGAT AGAAGAGAT GATAAAAAAA GAGATGAAA
334651 AGATGAGCTT AAGGGCTTTT GAATACCAAT TAACTATAAT TTGATCTCT
334701 TTTATCTATA APTCTTAAT AGTATCTCTG TTATTAAT AAAGCTAAAG
334751 TTGAAATAT GACATTAAG TTGCTGAAA GACATATCTT AAATAATCTG
334801 AAATCTATAT ATAATTACA AACTGTAAAT ATTAAGATAT AAAACCTAGA
334851 ACTCAATAT AGAATCTCTG AGAAAAGGAA ACAATATCTT CTATCTCTT
334901 ACAATAAAT AAATGATTA TGTGGCTCTG AGATTTCAA AAGGATCTGA
334951 AGAAGGAAAT TTCTGTGAA GAAATATCTG AAGCTATGAT GATTTCTG
335001 CCACTATCTG CTCTTATTTT CATCTTTCTA TAAATACTAA AGAGCTTAG
335051 GTTCTATAT GAAATGAGAA CATATGAGGC AATAAATCTT TGTAGAGCTC
335101 GTGATTTTTT TCTCTGAT TGAATTTCTA ATCTCTCTG ATAAGAAGA
335151 GGGAGTCAAC AATAAGCAA CTGAAGAAAC ACAATATCTG TTAATACAT
335201 GAAAACTTAT TAAGATTAAT TCAAACTTTT ATTAATAATA AGCTGTAAGT
335251 TTTATGAAAT AATATAGCT SATTTTCTCT CATAGTGAAT ATTAACAAA
335301 TATGAGGAT TATTTCTTA CTATTATATG TGAAGAGCT TATTTGATTA
335351 TTCTGAAAA TGAATAAT TAAAGTCTAA TTTTAAAGTG TTTATAGCTT
335401 GCTTGATCTT TAAAGTATAT TTGATCTCTG AAATGAGCTT CATCTCTT
335451 TGAACAGGAA AAAAAATAAC AAAGGCAAT ATGTTGCTTA AGAGCTTTAT
335501 TGATGGAAAT TGTATGTTTT AAAGCTCTCT TGGGGAAGAA AATAGGGAG
335551 CTGAGGATTT TTATAAATTT CTGCTGTCTG TTAATTTCTA AGAGCTAAT
335601 AACAGTATAT GTAAATATTG TCATTACAG AGATCTCTCT CAGAGATTTT
335651 CTGATCTCTC CATAGGCAAC AGACAACAAG TTGATCTCTA AGAAGATAC
335701 AGCTGGTCTG TTAGCTCTCT CAACAAAGAA AGCAGGAGTC TTGCTACCTT
335751 GCGAATTTAT CTTTGTAGGA AAGATTTTGA GAAGGCACTA CTACTATCA
335801 ACGGAGGAA TGGCTATTA CTAGCTCTGT GTCATCTCTA TTTAAGTTA
335851 TGTCTGAGAG AGCATTAATC TTTGCGGTT TTTAATAGCG CTTTTTTTTT
335901 TTCTGAGAA STGGTCAAGA CTTAAACATA AGTGAAGAA AAAAAAGAT
335951 CTAAAAATCT CACATATGAT CCAAGAGTTT TCAATAGAGT ACACACATTC
336001 ACAGAAAAAT GGCCTTTCTC CCTCTGAGC TTATCTCTGA ATTCCTTCAT
336051 CTGCTTTTAA TTCTCTCTAA AATCTCTCTG ATATCTCTG ATAGCTATCT
336101 GAAGATTTAG AAGAGCTTAG ATCTCTCTG ATCTCTCTG GAGAGGAA
336151 GATATATAT AATAATTA CTGAGGAAAG GATCTCTCTG GGAATCTTA
336201 TGAATATAT GATTTTAA ATCTCTCTG ATCTCTCTG TATCTCTTA
336251 ATTAACAGAT AAATCTGCTA TTTGCTCTCT GGTACACAG CTACAAGCA
336301 GTCTTATCTC CAGATCTCA CAGGCTATTC CATGTGCTCT AAGCTGAGCT
336351 TAAAGCTCTG GTCTAGGAT AAGCTGCTCT CATTCAGTCA CACTCAATC
336401 AGGATCATAT TGGTCAGCAA TCATTAGCAG GGCATTGAGA ACTGCTCTCT
336451 CTCTTATAT CTCTTATAT TAATCTCTCA AATACTCTG ATTTTCTTA
336501 GCTTTTAA TATATTAAG TAAAGCTCT TGGAGGCA ATTAATTA
336551 AACTTCAAGA AATACAGAG CATTAAAGG ATTCTCTCTG TCTCTCTAA

FIGURE 3. page 107 of 173

337051 CCCACTTTTCG TAGAGGTGGT TAACCTGCTA TTGCTCGTNT TTGGAAGCTT
337101 AGTGTTCGAC TGCAACTCT CAGATTATTA AAAATATGTT TTTTAATATA
337151 ATGGATGCTG CTATTGAAGT TTTAGGGAC TAATTAGCAT TTGCTGTGAA
337201 CTCTGGGATC CTTTTGGACT TACTCTACTA AATAGAGTCA GATCTAAGTC
337251 AGTTAAATTC GGAAAAAGAG CTCTCTGAGA TGAATAAAAA TCAGTGAAC
337301 AGCAATTTT ATTGAACAA TATCTAATTG TTTTAAATA AATAATGCAA
337351 CTGGAATAG GATAAAAAG TATGAGGTAT ACTGCTTCAG AGAGTATATA
337401 AAAATGATTT CTACTTATTA TATCAATATA TCAATCTAAG CAGTACCTAG
337451 CTCTGCTTA CATTGCACTT ACATCTGTGG GAATTCATGA CTTPAAAAAT
337501 TGTCAAGCAA CCGGTTGTTT TACAACAAAT TCACTCTATA TATTTGCTTA
337551 GCAAACTCTT TCATAAACTG TCTATTAATAT AAAATCAAGC TTTGCTCCAT
337601 TCTTTATGCG AAGCATTSAA GTTTTGAAT TAAATGAATT TTCTGTAAAT
337651 CTAAATCACT ACAAAACAGA CTATAGTACT GTTTCAGAT AACCTCTTAT
337701 GTGTGAGCTG AAATAGTAT GAAAAAGACA TGAATCAAGT ATAAATAAAC
337751 CTGTGAGTC TATATTTAT TGAAGTGAAG AATTATACAC GGCATTCTTG
337801 AGAGCATTTT TCTATATAT TTTAATATTT ATGTAGTAAA GAGGTTTTCT
337851 TTTCTGGCCA TTTCATTTT CTCAACTTAT ATTAGTAAA ATGGTAAAT
337901 GAAGATTTTA CTGTAGTGA CATTTTATTT ACATCATTTT GATAGCTTTG
337951 TGTCTTCTCT TCACTGTCT TTACTTTAAA AGTATTTATTA TTATAGATT
338001 CCTAATATTA TATGAATATA TATCAATATA CAGCTTAAG AGGATACAGA
338051 AGAAAAGTTG GAAATATTA GATCAGGGCC CTGCAATTCG ATAAATGGAAT
338101 AAAATTTAAA GAGAAAGCAA GCATGSCAAAT GGGGACTGTG GCGAATGCTG
338151 GAGTGCAGCG CCAATCTAAA GCGAGCAGCT GATATGAGG TCTGTCTAAC
338201 TGGCTTTAGG CAGAAATGCT TCACTAATTA ATGAATGCTT GCAANTCTTT
338251 CCAATTTTAAA AGAGAGGCTG GAAATGAGGA ATTTAAGATA AACTCTTTAT
338301 TTTCTAAAGT TGACAAATGA AAAAATGCTT TGAATCTTT TTTAGGCTGA
338351 AAAAAACACA TCTTAAGGCT TGTGTGAGGC CATGTGGGAT CTCAGCAAGT
338401 GTTTCATGTG CTTGGTCCAG CATAGAGGCC AACTATGCT GCGGTGTTCA
338451 GCATATCCAC TGTGCCAGTA GAAATGAGTA CACATAGAGA CTGAGAAAGC
338501 AACTGCTCTG GGGGCTTTCT CAGATAGTGG CACAGGAAGC ATATATATAA
338551 ATATCAATTA TGAATGCAAT GTTAATAAAG AATATAGGG AGAAAGTTAT
338601 TCTACTATAA GCGAAGAAAT TGTAAGGAGG AAAAAGACAG GATTAAACAT
338651 TTAGGCCAGA TCTAGAAGCT CACATCAAGC TGGCTAGTCA GTAAATTTTA
338701 AGAGCATATA TCAGAGTCAA ACGGATTGCT GTTTATCTTC AGGCATTTAT
338751 TGIAGGCCAT GAATGCAAT GGCATTTATT GTGTGACATT AAGGCAAAAT
338801 TCAAGACTGG GAAACCTTAC TTCTGAGCT TGATATAAGA ATTAAATAGA
338851 AATGTGAGAA GTGTCCATCT TAGTACTACG TACCATAGCA AGCAATGTCA
338901 TGTATTATTT ATGTTTATTA ATATCTTTCT ATGATCTGCG AACTCTCTTC
338951 ATTATCTCTG CAGGATCTCT TTATGCTTAC ATCAGAGGCG CTTAGTAGA
339001 ACACCTGGGA GAATGGAGTT CATCAATGCT TTGCTGAATA AATGAGTGCA
339051 TAAATGGATG GAAGAGTTAG CCAAGGGAGG GGAATAGAAAT TCCAGGTAGA
339101 AAAAAACACA AGAACAAAGT TATGAAAGCA GTAAAGTCCA TATGACTTTT
339151 TAGAACCAAG GTTTTCTGTA GTTGGCGAGA GGCTAGTCTG GAAAATTTAC
339201 GTTCAAAATA AGATTTTCTT AATTTTCTAG ATAACTGCTA TGGGCTTTTG
339251 AGTAAATATC AATGTTTCTT ATGAAAGCT TTTGATTTT TTTGCTCTCA
339301 CAGTTTATCT TTAGAAGCTT TTTGAATTTT AATTTATTT TTTTAATATA
339351 AAATATTTT TTTAAATCTT TAAAAATTT TAAATATTT ATTAAAGCT
339401 TAAATTTTCT TTAATGCTT AATTTATCT GTTAAATTT AATTAATAT
339451 ATATATATCT TTTATCTTCT TTTCTTCTT TATAATAT TATTTCTGAG
339501 ATCTATATAA TGTAATAGT GTCTTCTTAA AAATGGGCTT AGAGAGCTCT
339551 TTGGCTGCTT TCTGCACTGT GAGGTTACAA TGAAGAGATG GAGCTTATTT
339601 ATGAACAAGG AAGCAAGGCG TCATCAGGCA TTAATATAGC TGGCAACTTG
339651 ATCTTGGACT TCAAGGCGCG CATAACTGTG GACAATACAT TTCTCTTGT
339701 TTTAGCTTAC CTAATGATG ACTATTTTAT TTTAGCACT TAAATGGACT
339751 AATATATTTA TTTAATCTT ATGAATTTG AATTTATAA AAAATGCTCA
339801 GAGTTTTTCT AAAATCTCTT ATGCTTCTCA GAAATTTGCT AGTATGCTCC

337051 CCCACTTTTCG TAGAGGTGGT TAACCTGCTA TTGCTCGTNT TTGGAAGCTT
337101 AGTGTTCGAC TGCAACTCT CAGATTATTA AAAATATGTT TTTTAATATA
337151 ATGGATGCTG CTATTGAAGT TTTAGGGAC TAATTAGCAT TTGCTGTGAA
337201 CTCTGGGATC CTTTTGGACT TACTCTACTA AATAGAGTCA GATCTAAGTC
337251 AGTTAAATTC GGAAAAAGAG CTCTCTGAGA TGAATAAAAA TCAGTGAAC
337301 AGCAATTTT ATTGAACAA TATCTAATTG TTTTAAATA AATAATGCAA
337351 CTGGAATAG GATAAAAAG TATGAGGTAT ACTGCTTCAG AGAGTATATA
337401 AAAATGATTT CTACTTATTA TATCAATATA TCAATCTAAG CAGTACCTAG
337451 CTCTGCTTA CATTGCACTT ACATCTGTGG GAATTCATGA CTTPAAAAAT
337501 TGTCAAGCAA CCGGTTGTTT TACAACAAAT TCACTCTATA TATTTGCTTA
337551 GCAAACTCTT TCATAAACTG TCTATTAATAT AAAATCAAGC TTTGCTCCAT
337601 TCTTTATGCG AAGCATTSAA GTTTTGAAT TAAATGAATT TTCTGTAAAT
337651 CTAAATCACT ACAAAACAGA CTATAGTACT GTTTCAGAT AACCTCTTAT
337701 GTGTGAGCTG AAATAGTAT GAAAAAGACA TGAATCAAGT ATAAATAAAC
337751 CTGTGAGTC TATATTTAT TGAAGTGAAG AATTATACAC GGCATTCTTG
337801 AGAGCATTTT TCTATATAT TTTAATATTT ATGTAGTAAA GAGGTTTTCT
337851 TTTCTGGCCA TTTCATTTT CTCAACTTAT ATTAGTAAA ATGGTAAAT
337901 GAAGATTTTA CTGTAGTGA CATTTTATTT ACATCATTTT GATAGCTTTG
337951 TGTCTTCTCT TCACTGTCT TTACTTTAAA AGTATTTATTA TTATAGATT
338001 CCTAATATTA TATGAATATA TATCAATATA CAGCTTAAG AGGATACAGA
338051 AGAAAAGTTG GAAATATTA GATCAGGGCC CTGCAATTCG ATAAATGGAAT
338101 AAAATTTAAA GAGAAAGCAA GCATGSCAAAT GGGGACTGTG GCGAATGCTG
338151 GAGTGCAGCG CCAATCTAAA GCGAGCAGCT GATATGAGG TCTGTCTAAC
338201 TGGCTTTAGG CAGAAATGCT TCACTAATTA ATGAATGCTT GCAANTCTTT
338251 CCAATTTTAAA AGAGAGGCTG GAAATGAGGA ATTTAAGATA AACTCTTTAT
338301 TTTCTAAAGT TGACAAATGA AAAAATGCTT TGAATCTTT TTTAGGCTGA
338351 AAAAAACACA TCTTAAGGCT TGTGTGAGGC CATGTGGGAT CTCAGCAAGT
338401 GTTTCATGTG CTTGGTCCAG CATAGAGGCC AACTATGCT GCGGTGTTCA
338451 GCATATCCAC TGTGCCAGTA GAAATGAGTA CACATAGAGA CTGAGAAAGC
338501 AACTGCTCTG GGGGCTTTCT CAGATAGTGG CACAGGAAGC ATATATATAA
338551 ATATCAATTA TGAATGCAAT GTTAATAAAG AATATAGGG AGAAAGTTAT
338601 TCTACTATAA GCGAAGAAAT TGTAAGGAGG AAAAAGACAG GATTAAACAT
338651 TTAGGCCAGA TCTAGAAGCT CACATCAAGC TGGCTAGTCA GTAAATTTTA
338701 AGAGCATATA TCAGAGTCAA ACGGATTGCT GTTTATCTTC AGGCATTTAT
338751 TGIAGGCCAT GAATGCAAT GGCATTTATT GTGTGACATT AAGGCAAAAT
338801 TCAAGACTGG GAAACCTTAC TTCTGAGCT TGATATAAGA ATTAAATAGA
338851 AATGTGAGAA GTGTCCATCT TAGTACTACG TACCATAGCA AGCAATGTCA
338901 TGTATTATTT ATGTTTATTA ATATCTTTCT ATGATCTGCG AACTCTCTTC
338951 ATTATCTCTG CAGGATCTCT TTATGCTTAC ATCAGAGGCG CTTAGTAGA
339001 ACACCTGGGA GAATGGAGTT CATCAATGCT TTGCTGAATA AATGAGTGCA
339051 TAAATGGATG GAAGAGTTAG CCAAGGGAGG GGAATAGAAAT TCCAGGTAGA
339101 AAAAAACACA AGAACAAAGT TATGAAAGCA GTAAAGTCCA TATGACTTTT
339151 TAGAACCAAG GTTTTCTGTA GTTGGCGAGA GGCTAGTCTG GAAAATTTAC
339201 GTTCAAAATA AGATTTTCTT AATTTTCTAG ATAACTGCTA TGGGCTTTTG
339251 AGTAAATATC AATGTTTCTT ATGAAAGCT TTTGATTTT TTTGCTCTCA
339301 CAGTTTATCT TTAGAAGCTT TTTGAATTTT AATTTATTT TTTTAATATA
339351 AAATATTTT TTTAAATCTT TAAAAATTT TAAATATTT ATTAAAGCT
339401 TAAATTTTCT TTAATGCTT AATTTATCT GTTAAATTT AATTAATAT
339451 ATATATATCT TTTATCTTCT TTTCTTCTT TATAATAT TATTTCTGAG
339501 ATCTATATAA TGTAATAGT GTCTTCTTAA AAATGGGCTT AGAGAGCTCT
339551 TTGGCTGCTT TCTGCACTGT GAGGTTACAA TGAAGAGATG GAGCTTATTT
339601 ATGAACAAGG AAGCAAGGCG TCATCAGGCA TTAATATAGC TGGCAACTTG
339651 ATCTTGGACT TCAAGGCGCG CATAACTGTG GACAATACAT TTCTCTTGT
339701 TTTAGCTTAC CTAATGATG ACTATTTTAT TTTAGCACT TAAATGGACT
339751 AATATATTTA TTTAATCTT ATGAATTTG AATTTATAA AAAATGCTCA
339801 GAGTTTTTCT AAAATCTCTT ATGCTTCTCA GAAATTTGCT AGTATGCTCC

FIGURE 3. page 108 of 173

243351 GATTCCTAAC ATTTAGGATT CATCTAACTA TATTATTGAC ATGAAAATAG
 243401 AATTATCGTA AGTTTCATGA TTTCTACAT TSATTGAGTA TTTAATATGT
 243451 GGCAGGCTTA GTGGTAAATG GTTTAATGGA TTCTAAATTT TAAATCTTAT
 243501 GACAGACTG TGAJATTGTG CCGTTATTAAT CATATGCAAT TTATTAJAGA
 243551 ABAATTAAAG CTTAGAGAGT GGAGGCAACT TAACTAATT TTATATTAAG
 243601 TATGGAAGT AGCCTTCAAA CTGAGGTAAT TTATTTGCA AAGTGAAGTT
 243651 CTTATTCTCT AAAATATATC CTCTTTATGA TTTCTGTCAG TTTCTTATTT
 243701 TCTCCCTTAA ATCTCCTCAG GASTTACGCT GGCAGTTGGA CATACTGGTA
 243751 ACATTTGACT GTGACACCAA ATGTCCTAAT CTGAGTGGTT AGTTAAATCT
 243801 TCAAAAAGCC TACAAAATA TCATTGCAAT GGAGGTTTAT TTCTAGTACG
 243851 GTCTCTTCTT TAAATTTATA TACCATGTAC TTTATGCTTA TTTAGATTAA
 243901 GAATAGTGGG ATGGGCTTTT TTCTTCTGCG TATGCTGCGAC AGTTACAGAA
 243951 AAAGCAAAAC CACCTGATA TTACTGACTT AAAGAAGAAC TGAAAGATTAA
 244001 TGGCTTTTAA CTATATTTAA ACTTTCTTCA TTATGAACA GTTCTATATC
 244051 TCTTCATTGT TACTCACTGT TTCTCAATTT AIGCTTATTT CTGACATAAA
 244101 TCCAAAACAA GTATTATTA TTTACTACTT CTTTAGGAAT GCAAGCTGAT
 244151 TCTTAATGAA AAAATTTTAA TGAGSAAATA ACATTGACTT TTTCTTCTTA
 244201 GCTAATGTTT AAAATTTTAA GTCATCTGAG GCTTAAGAGT ACAAGTTTCT
 244251 TCCCATCCAA GTATTAACCA GACCAACTTC TSTTGCAATT CTGAGATCAG
 244301 ATGAGATCAC ATGTACTCAG GGTGGTATGG CAGTAGATAT TATGACAAAA
 244351 TATCTTAACA CTCTCTGAG TTTCTCTTCA ATTGAGATAA TTTAGTCTTG
 244401 AATTTCTTCA ATGATATGAT TTGAAAACTC TTTCAGTATA CAAATAAATA
 244451 CAAAAATGAG TTTTATATAT AGCAGTACTT TTCAATAATA ATTTCAAGGT
 244501 TTTAAATTTA TACTTAAGGC AAAATTTTCA CAATTATTTG TATAAAACT
 244551 CATTGATTCT TCACTCTTCA AATTAATAAA AAGAAAAATC ACAATACTGA
 244601 TGACAGGATT TTTGCTCTT AGCTCAGCTA GGTCTGGGTT CTCTCTCTAT
 244651 GACGAGGAAA AAGTAGGCACT ATGGAATATC AAAGAATGAG TGGAGTAGAA
 244701 TTTTTTAAAT GAAAGGAAA CTCTCAGTAA AGAGAGAGGG GTTTGAAAAG
 244751 GGGGTTCCCA GTTTCCCTCC TTCTCAGTTG AATACAAAAG CTCTATATA
 244801 TCTAAGCTTA TGGGGGCGGG TTCTATTTCT GTATAAGGCA TGAATCTGAG
 244851 GTGGCTCCCT TCCATCCTCC CAGTGGCAT GCGGGGCTTT AGTCACTGCG
 244901 AGGCATGCTT AAGAGAACTG TGTAACTTCT CTATCTGCA CAAAACATCT
 244951 GGTGTGAGTA CTCTTGGGGG TGCTCAGAGG TTCTCTGGGG ACCTTTCTT
 245001 ACTGTCTGCT TAAAAGAAAG TAACCTCTTT CATTCCTTTC TGCAGGAGTG
 245051 GAGACCCCTA AGGCTGTTT GGTAAAGTAG ACAATCACTA TTCTAACTG
 245101 CTCTCTGCTG ACAGGAGTT CTCTTTTGGG AAAGTGGCAG TTAGGGTCC
 245151 TCTTGAGGTC TGTTTAAGGG TCCATGGAAG AATGGCACAT CCATGCTGCG
 245201 TTTCACTTGC ATGCTCATTT GAAGTTTAA TGGCTTTTAG CAAATAAAG
 245251 CAATTTGGGT TATCAGAAGG TGCTAAATCA AATGAATCAA GGGAGTAAGG
 245301 ACAGCTCCAG AATCCAAAGA TTGCTGACAT GCCCAGATAA CTGGTGGCTA
 245351 TAGTTATCCC TGCTAAGATT TGATATGATG GGGCTTAGCT TTGTTTACT
 245401 CCTTGGGTCT TATTTTCCCA AAATAAAAAA CCTCCAGGAT TTGAGATA
 245451 ATTGCCCGAG ATTAAATAT TGATCCAGAT TTTTACATTA TCCATCCTT
 245501 TTGTTTCTTC TGAGCTGCAG GTGGGTATCA CTGCTTTTCT CACAGGAATA
 245551 AGTAATATA GTCTAAATC TTGCTAAAAA CTGAAAAA ACTGATGAG
 245601 TTAATATGGA ATCAAAAGT TATTTTAAAT TTGAAAAA TTTTCTCTT
 245651 TTAATCTT ATTCTTCTCA AAAAATAA ATATAAAT TAAATCTT
 245701 TTAATATAA GTTAAATTT ATATAAAT TTAATCTT TTAATATAA
 245751 TTAATATAA GTTAAATTT ATATAAAT TTAATCTT TTAATATAA
 245801 CTCTGTTCTA CAAGCAATCT CAGATAAGAG CTTTTAAAG CTAGCTAGG
 245851 CATGGATTG TACTCTGAAA TACCTATGAT TTGGGCAAT TCTCTTTG
 245901 TTGAGGTGCG CAGAACATAG GGTCTCTGGG CTGCTTAGAA AGTACATTC
 245951 TTTACTCACC ACAGGTAGG AACCTGTAT AGGAGCTCTT TAGATAAGGT
 246001 ATAGGCTGAA AGTCTCTAAG GAGCTTTAAT TCTTTTCA GCTATGCTT
 246051 TATCTTAA AGGAGGAT ATCTTTAA TTAAGCTT GGTAAATAA
 246101 TATCTTAA CAATTTGCA CTCTTATAA AAATAAATTT ATTCTACTT

FIGURE 3. page 110 of 173

349451 GGCTAATGG GTGGGAATTA TGAATATTTA GGTATACGGA GACTGCTTTG
349461 TGCTGTTGGT AACTTTTGAG TTGCTATATG GTTGCTGDTG TCATAGATAC
349471 TAGATATACC TCTATCTATG AAATGGGAGG GGGCTAATT GTGAGGAATC
349481 AATATGTA AGGTAAAGCT GTGGAGCTGG GTTCCCTCA AACAAAGGAG
349491 AGGAAAGGA TTGCGTGA TTGGGGTCTT GGCTAGTAA AATGCTCTC
349501 AAAAGAAACA AAAAACTT TTGCATAGAA AAGCTGCGCA TATCGGAGG
349511 GCTGTGTTAA CTCTGGGAC TGTGGGAAAA AGAAAAATAA ACAGTTTAAG
350011 TGAGAGGTGG GAGAAATGCT TGGGGAAAA ACCTGTAGCT CTATGCAAT
350021 GTGTTTCTCC ACCAGGGA GAAGCTCTTA ATCTTTGAC CTTCTTGGCT
350031 CAACCAAGG AGGAAAGGCT CCAAGGTTT ATGGAAGGAT GGTCTGAGA
350041 GTGGGAATG CTGGGAAACA GGTGATGA GGGCTTGGC CCGGAGATT
350051 GCTTTCTAC GGGGGAAGCA GACACAGTT ATTCTTCTCC TGGGTGCTCA
350061 CTAACTGAG CATATGTTG TGGAGACAT AGCCTATGAC CCGAGCTGGG
350071 AGGGAGGTT GAGGCAAGGA GTGATACCT GTGGGCAATG GGTGGAGCTG
350081 AGGATGCTCT TAAGAAAGAG ATGAAATCA CATTATCTG AATGCTATAT
350091 CTGGTGGCTT GGGCAAAATG TCATCTTACA TAAATATG TCTGAGTTT
350101 GAGCAACAC CTTTAAATAT ATTTAAAAA AGGTGCAATG AAGGCTTGA
350111 AAAAGAAAGA AAATCTATA GAAAGCTG GATTTGAAAG AGCTGACAT
350121 TCGCAAGGCT GAGAGTGAAT GGTAGGGCT GTTGTGGGG TCTATCTAG
350131 GATCTCTCTC TCTGAGCTG GGTATTTA TCTTAAATGG CTGACAGAG
350141 GTTTGGTGGT GATGAGGCT TCAAAAAAG TGTGAGGAT AGAGTCTCA
350151 GAAGTGAAG TGAAGGTTT TGGGTCTCAT TTATCTAGCT TCGAGGATC
350161 CTGTGAGG TCGCAAAATG AGAAGGATT TCTGTGCTT TAGCTGAGCT
350171 AGGTCTGGT TCTGTCTTA CAGGAGGAA GAGGTAGGCA TGGGAGGCT
350181 TGAAGATGA GTGGAGTGA ATTTATTAAG TGAAGGAAA GGTTCAGCA
350191 AAAAGAGAAA TCGTGAAGT AGGTCTGTG TTGCTCTCT TTTGAGTTGA
350201 ATACAGGGG TCTATATAT CTAGGCTGAT GGGGTGCTT TCGGTCTG
351001 CATAGGAC TAATTGCGG TGGCTCAAC TAATGCTCT AGTGCATG
351011 TGGGCTTTA GGGCACTGG GGTATGTTT GGCATCTTC CTGTGCAAT
351021 TGGCTTCTCT GGCAGAAACA TGTGGTCTAA GAACTTGTG GGCAGGTTG
351031 TGGTCTCTCA GGGAGCTCTC CTTTACTGT TGCCTAAAG AAGCTGGCTA
351041 ACTTCTCTCT ATACTCTAG AGTATGATTA AGGTCTTTC CTAACTTCA
351051 TTTTGGAGCT AAACCACTT ATATATATA TAAAGCTCAA TAAACTATA
351061 TTGAATTCAT CTTGAATTGG CAAATATGG TAATACAAA ATTGAGATT
351071 AAATTTGGGA TGTAAAGCAG GAGTACAAA TTGGTCTGCA GCAATTCOA
351081 TTAAATAGAA CATTAATTTT GCTTCTATTA TCTTCTTGT ATTTATAGAA
351091 TACAGCAAG CTTGGTCTCA CAAACAGAA ATTCTATCT AATGTTTTTC
351101 CCAATTTCTG AGTTTACTCT GTAAATATA TTTAAATAG CAAXTTGAAA
351111 TGACAATATA TCTGGAGGCT ATAGAAATT TCAATAGGCT AATTATGGAT
351121 TCAATATTTG TCAATGTTCT CTAATATATA GTCAATGTT AGTACTCTG
351131 GGTGATATAA AAACATGTAA ATAAGATCAT TGTCTTCAAG GGTCTTGTAT
351141 TAAATAGAGA CTTTGAAGTT TGAATCTTA GATTATGTT TCTAGTCTC
351151 TCTGGTCAAA TAAATATATT CTATTATCTA GTCCAAGCTT GTATAGCCT
351161 TACTGCTGGA GTTGCATGT GGTAGGATG ATTTGAAATG TAACTGAC
351171 AATTTCTAA ACTTCTTAA AAGATTAAGA GATTTTTTG CATTTTTTT
351181 TTAATGATG GCTATATAT AGTCTATAT TATTAATTT GTGCTGAAA
351191 AATATTATT TTTCTTATG GTTCTTAA GAGCTAAA TATGGAAT
351201 TCTATTCT TCTAAATAT TCTGAAAA TAAATAAT TTAATACTA
351211 TTAATACT TAAATATCT TATGCTTA TATATAATA ATAATAATA
351221 AGAGTGTGTG TTTCTTAAA GGAAGAGTGT GGAATTTTTA ATTAAGCAGC
352051 AAATTAGTTT TCTATTTTA CTAATGCTA TATGCATAT AATAATCA
352101 CATAATGACA TATACTCTAA ATTAAGATGT TATTTCAATT TAAATACCG
352151 AATTAGCTAG GCAATTAATA AGTGTGAAAA ATCAGACTTC TGTGATTCT
352201 AGATAGTGA GCAATACAT ATCTATATGA AATCTGGTA GCAACTGAC
352251 TAAATATCT AGCTTAAAG GGAATATTT ATTTTAATT TTTTAAAAA
352301 GCAATGCTT GATTTATAT GTTCTTATG CAGGGAAGG TGTGGAATC

FIGURE 3, page 112 of 173

355951 TATCAATAAT GAATTAAAAA AACCCCTCAG CTTGGACTTC TGATTAGTAA
 356001 TTTTAAAGATT TTGAATATGT TTTTATGTA GATTCCCGCA AATTTGTTTT
 356051 CATTTTGAAA GAAAACTGTT ATAGATCACT AAGGTAGAGA AAGAAAAAA
 356101 TTAACATGAA GAAAACTTGA AATCTCACC TTTGAGGTAA TTTTGTTCOA
 356151 TTCTGATGCT TTAAGCTTTT TTCTTTGCTT ATTTTGTGTT TTTGTTAAAA
 356201 TCAGA AAAA GAACAGAGAC ACAGATTGCT TAGTTGCTGT TTTCTTTTCA
 356251 TGTCTTTTAA TCTGTTTCTT CTGCTCTAA AGGAATACCT GAGGCTGCGT
 356301 AAAATTATTTT AAAAAATTTT ATCTGCTTAT GATTCGGAT GCTGGGAAAG
 356351 TTCAAGATTG GGCATCTGCA TCTGCTGAGG GCTTCAGCTT GCTTCCACTC
 356401 CTGATGGAAG CAGAGAGGCA GCACATCTG ACAGAGATCA CATGGTGAAG
 356451 TAGGAGGCAA CAGAGAGGCA GCAAGATCTT AGGATCTTTT TAACAATGAG
 356501 CTCTATGCTG AATGAAATGA GCAAGATCTT ACTGATFACC ATGAGGTTGG
 356551 CACCAAGGCA TTCTATGAGG ATCTGCTGCT ATGAGGCTAA CAGCTCCCAT
 356601 TAGGCTGCACT CTTCACACTT GGATATCAAA TTTTAAATG AATTTTGGG
 356651 GAGAGATAT CTAAAACTGA GTAGAGTATA ATGATCTTCT GATGATTTT
 356701 AACTTCAAA AATGAAATCT TGAAATCTT ATGAAATGAT TAGGATGAT
 356751 CTGATCTTAT TGCGGTCTT CTGCTTTTCT CACCAATTTA TTATGCTAG
 356801 AATTTTGGAG AAAAACTTCT TTAGAGGAT ATGAAATGAT CTGAAAGTAA
 356851 TTCTTGGAT AATTTTGAAG CTCTGCTGCT TTAGGATACA GATGCTGAA
 356901 AAGCAATGCT CCAAGGAGG AGAGAGAG TAAGAGATCTT TAACTTCTG
 356951 GAGATTCAGT GAATCTCTT CATTTATGCT GCTTTTATAT ATGCTTTTCT
 357001 TCTTAAGACT GTGCTGCTCT GTTTCTGCTT GTGCTGCTCT GTGCTGCTCT
 357051 GTGTCTGAA AGATCTCACT GTTTTAGGCT AGGCACTCTT AATAAATTTT
 357101 GTCTATCTCT GCTATTTAT CTGAGCTTCT CAATATGAA AGCTGTTTGA
 357151 TATTTTCACT AATCTGAGT ATCTGAGTCT TTATTTTAT ATGATTTTCT
 357201 AGCTTAGGGA ACTTTCTGAA GTCTTACAAA TAGTAACTG CACAGCTGAA
 357251 AGTGAAGGCT TAATTTCTG AGCTTGACTT GATGCTCTCT TCACTTTGG
 357301 ACTTCTATTT GAAAGGAGG CCAATTTGAT CTCTGATGCT TCTTTTCTCT
 357351 ACTTAAGGCT GATGAGTGA CAAATTTTCA GAGCTTTGTA GCTGCTCTCT
 357401 TCTGATCTCT GCTATTTAT CTCTAGAGAT AAATGCTTTA AGAATATGAG
 357451 GCTTCTGAG AGAAGTGAAT TTTTCAAACT AGTTAAAGCT AAGTATGTA
 357501 ACAAGATATT TTGGGAGGAT GAAATTTTCA CTAGCTTACT CAGGAAATTT
 357551 AACTGATAG GAAAGGCAAT AATTTTCTAA CACAGTATG AAAATTTTGA
 357601 GGGTTATAT CTCTCTGCTT TGAAATATA CCAAGGCAAA AAGATCTGTA
 357651 TGCTACTTTT GTGCAAGAG GTTCAAAATG AGAATGATA CTAATTTGTA
 357701 AGAAGGAGCA CAATTTTCA GAAATTTTAA AAAAAACA AGAATATGAG
 357751 TGAAGTCTCA TCTCTAGGA AATTTATTTT ATCAGTGAAG ATTAGGATCT
 357801 CTAAATGCTG CCAATATGCT TACITGACA CTGCAAGATC CTTCTTCTAT
 357851 TCTATGCTGA ATGGAATCT GTTTCAGAG AGGATGATG AAAATATGGA
 357901 AATAGATGCT CAGTGGAGT AGGAAATAGT CTGAAATCTG ACTTTGCTGG
 357951 TATAGGCTAT TATTAATCTA CTTCATTTCT CATGATCTTA AAGGATCTAT
 358001 AATGAGCAAT ATTGAATTA TCTGCTGTA GTAAGATTTT AAAATATCTT
 358051 TCTATGCTAT ATTTTAAIAT ATGCACTCTT GTTTCCTAAC CATATGGAAT
 358101 ATTAATTTAG CTATTTGAGG ATTTATGAA TTTCAAAAGT AGCTTTTAGG
 358151 ATATTTGAAA ATGAGGATA TAATGCTGA TTTATCTT ATTGATTTT
 358201 TATTTATTA CTCTATGAG AATTAATTA TTATTAATAG GCTCTCTCT
 358251 TATTTATTA TTTTCTCT ATTTATGAA CTAAATATA ATTAATTTCT
 358301 TATTTATTA TTTTCTCT ATTTATGAA CTAAATATA ATTAATTTCT
 358351 AATTTATTA ATTTATGAA TTTTCTCT ATTTATGAA CTAAATATA ATTAATTTCT
 358401 TTTTATGAA ATTTATGAA TTTTCTCT ATTTATGAA CTAAATATA ATTAATTTCT
 358451 TTTTATGAA ATTTATGAA TTTTCTCT ATTTATGAA CTAAATATA ATTAATTTCT
 358501 ATTTTATGAA ATTTATGAA TTTTCTCT ATTTATGAA CTAAATATA ATTAATTTCT
 358551 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358601 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358651 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358701 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358751 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358801 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358851 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358901 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG
 358951 CTCTAGGAG CAGCAGACAT GAATAATATC ATTTCTCTCT CTTGCTTTGG

FIGURE 3. page 114 of 173

359101 GTTTAATAGG CTCCCGAGCT TTTACTGNTT TATCNCATN TTAAATTA
359151 AGAGTATTTA GTCTATTTTT AAGAAATAA AGAATTTATT TTTATATT
359201 TTTGTGTTTT TTGCTAGATA GTTAGATGAT GATATGATG ATGATGAAAA
359251 ASAA AAGA GAAGATGATA ATAGATAAT TGATGAAGAT AGATAGATAS
359301 ATAGATAGAT GATAATATA TAGATAATTT GGTATATAT GTGTCTGTAT
359351 AATGAGTTTA ITTTCATTTTC TTAAGTATTC GTTCAGAGST AGGAACATAA
359401 CATCTTTTTA AAATATCTCT CAAAATACT AACACTGCTA ACTCATCAAT
359451 TGTAAATTGG GCTAAATAAA CTGACATATT TATTTAATTC ATGAGATAGA
359501 TTTCTAGCAT TCATAAGAGA AGTTTATGAT GTCGATAAT ACTTCCTTGA
359551 TGAGAGGAG TAACAACCTC AGTATTTAT TATGTCACA TTTATTGAGT
359601 TTATAGTAA GCTAGAGCAA GCTAAATAAG ATACATAAAA GTTAATTTCT
359651 TTTCTCTTTT TATATAGCTT GCAATCTTC TCTCTCTTT TTATGATGA
359701 GGAAGTCTTG GAAATGATTC GGAGACAATG TCTCTGATAG AACATCTTAG
359751 ATAAGATGAT CTGGAATGAA ATGTATAAAG GTTGAGAGCTC TCTTATTCGA
359801 TTAGCTTTCA AGTGGGAAGA TAAGAAAAAT TCAATTTGAT TCAAAATTTCT
359851 ACCCTATGCA TTAAATAGTC ACAATGTTCT TGAATGATTT GTTGTATTT
359901 TCTTGTGTTT GATTTCTTAA TTTGTAAAAT AGGATAAATA TCTTCTTCT
359951 TGATAGACTT CAGTAAATA TTAGTGTGAT TTCAGAGCA AAAATGCAAA
360001 TAATTTTTTT TTTTCTCTAG ATGTATATAG AATGCTAAT CTGAAAGGA
360051 TCTCTTTTCA GAAATCTTTC TTAAATTTCT GATGATTTCT TCTTATTTAG
360101 TTGAGTGGGA AAAGATAGAA AGAATAAAG AAAATCAAG TGTGACAAA
360151 TTTATATCTG TAATAAATCT GGCATCTCTT GATGAGAAAG GGGGCACTTA
360201 AACCAGTCTG GAGGAGCTAG AAGAACTCAT TTCTAGATTA AAAATGGAAG
360251 GAAGCCAGAA GATATGCAAT TGGGTGAGAA CTGAGTATCT AGGTGCAAGG
360301 CAGTCACAAA AAGCAGCAAA GTGATTTTCA AGGCTAGTGA ATAGGGGAGG
360351 CAAAGTCTCA GAGGCAACTG TGGGAAGAGT AGGATGAGAC AGCTGCGATC
360401 TCTTAACGAT CTCTCTTTCT CCAGCTCTTT TTCTTTAAGC CCGTCACTTC
360451 GTAACCTTCT GCTCTATATA AGCTAGAGCA TTCTCTAGG CCAATTTTCT
360501 AATCCAAATG GTTCTCTTCA TATCATGAT TACTATCTGA TAACTGCTC
360551 AAGCTTTCTG AGCTAGTATA CAAAATTATA AACAGATTT GTTTAAATAT
360601 AAATCCCTCT AGTTCTCTAT ATATAAAAAA GCTATGTTTT CTGAATGCGA
360651 CCAATTTGAT GAGAGTATCT CATGTAAAAA GCTGATGAA AAAATGAGAG
360701 TTTTGTGTTT ACTGGGATAT ATTTGATCTT TGAATGAGAA ATTAATTAAC
360751 TCAAAATGAT TTTATGATG GAAACATGCA GGAGGAAGGT GAGGGATGCT
360801 AGGAGAAAGG AAAGATATCT TTTAGATTTA GGTCTCTCTG TTTACAGCTT
360851 CCAATTTCTG CCAAGTTCT ACCTTCTCTA GGTACCTCTC CAATCTCTAT
360901 GCTATAGTGA TTTCTCTTT TCTAGCTTCA GAAGGAGTTA GGGGTTCTAT
360951 CAAACAGCTT TCTGCTGAG GAGGAGAAAG AATGTACAT TGTGAGGAGC
361001 TTTCTGTTT TACTGAGAG TGAATCATTT ACAATGATAT AATGAGTCA
361051 GAAAACGACA AAAAAATGCA TACACGCAAA GTGCTATTTT AAAATGCGAG
361101 TATTTCAATA AGGCTTAAAT TTAACAAAAA AACAGAAATC TTAGAGTAAG
361151 TAAGCTGAAC TCCATTTTTT ATAGCATAT CTAATGCTTC CTTCAACTA
361201 GAGATTTTCT TCTCTCTCT AATGCTCTAA AATAGCTTCA TTAAGCTCTT
361251 AAGAAATGAT GTTCTCTCTA AAAAAATAT GCTCTATGGA ATATTAAGCT
361301 AATTTGTTT TATTTTAAA TAAATGAAA GATTAATTT TATTAATTA
361351 GAAATTAATA TAAATGAT CTCTATTTT GAGGCTGAG CTCTATTAAT
361401 TTTTATTTT AAAAAATA AAAAAATAT TTTTATTA TTAACAAAT
361451 TATTTTAA TATTTTAA TATTTTAA TATTTTAA TATTTTAA
361501 TTAAGATAT TATTTTAA TATTTTAA TATTTTAA TATTTTAA
361551 TTTAGTCTA CAGCCATCTC AACACACACA CACAGGACA CACACACACA
361601 CAGATGACACA CACACACACA ATTTCTTAAT GTATCTCAAG TTGAATTTAT
361651 CTGCTCTAT CTTAGAGAG ATCATTTATT GTTCTTTTT CATCTTATGA
361701 GTATGATAT AAATTTGAT TCTAATCTAT AAAAAAGAA TAAACAAGAA
361751 CCAAAATATA TTTTAGAGC AAAATGATTT TATGCTTAAA TTGTCAGAG
361801 CAATTTTAA TTTAGTTAA TTTGATTTT TATTTTAA TATTTTAA
361851 TTTTCTGATA AAAAAATA TATCTTTCT TGAATTTAT AAAAAATA

FIGURE 3. page 115 of 173

362351 CTGTGAACAG ATCTGAAGCT TTAAAAATAA AATTGCCCCG ATGTTTTATT
362361 TGGATCCGTT CTGCTTCCTT CTAAAAAGCA CAGGAAAGC CCAGGGAATC
362371 ACAATATTA AGGACATCTT CTGGAGTTTA ACCTCTCTC TAAAAAGCA
362381 TGCATTCGAG GGCATAAAAG AAACCTCTGA GTASJTCAGA AACTTTAAAT
362391 GCTGAGGTC CTACCTTACA CCGGAGGCA GAGJTGCTT TGAATTAAA
362401 TTAGTCCGAG AAACATCAAT SAATCATGAT TCTATGCTT TATATTAGAC
362411 TGAAGGCTGA GGAATACAG TGTGTCATAA GGCCTTCAA AACTTATTGA
362421 TTTCGACTTC CTAACCTTGA ATTTGCATTA ATTGAGATGA GJACTTCTT
362431 TGAATTCATT TTCTCTCTC CCTGAACTGG GTTJAGCTGA TCTGAAAGAG
362441 AGAATTTTCA AAATGAATCA GCGAAATATC TAGCTTATAA GATPATAGAC
362451 AAACAAAATA CTCTTCAAA TAACATTAGA AGAATCACAG ASTAAATATT
362461 TTAATTAATA TTCTTTTAT TACATTTACA ACATTTTATT CCAACCAAGT
362471 AGATTAAATC TATGAGATGC TCATCTACTA GGTAAATACAT GGTCTCTCT
362481 GAGCTCAAGC AGATCACAAA TACTTGTCTG AAAATCTGCT CCGCCACTTC
362491 CACTCTTAAC AGTCTATCTG ACTATAATGA ACATTTAACT GGTGAGAGGT
362501 GAGTACTTC CAATTTGCAA TCGAAATGCG ACATACTTTC TCGAGGAGA
362511 TACCCAGATC ATTTGCGAGCT TTGAGCATTC AATTCAGCTG TCTGAAGAGC
362521 TTTCCAAAGG CCGGCTCAAT GGGCTTACT TGTCTTACT CTGAGCTCTA
362531 TCTTCATACA CTGTACTAG CCGATTTCTT CAATGATGCT TCTCTTAAGC
362541 TGAATTAAT TCATCTAGCT ACATCTTTC ACATCTCTT CTTTCTATCT
362551 TCTATCACAC ATATCACAA TGAATTAATA TCTTATTTC TGTACTTATT
362561 TGTCTCATAC CCAATTTGCT CCACTAGTGA CTAAGTTCAT TGAGGACAGG
362571 GGTCTGTCTT TTTTCTCTT TCATAGTCTT CCGAGTCTCT GTCGAATAAA
362581 AGTCTGGTGG GTGCGCAAA GGTCTGATGG ATGATGATG GATGATGG
362591 ATGATGGAT AGATGTTTGG GCAAGAGCTT ATATAGAAAA ADETAGGAGC
362601 GCATTTGAG AGGTAACTTA GATTCAGAA TCTACCATAT CCGCTCTTAA
362611 ATCAATTATG GCATTTCTCT TTTAAAGAGG GAATAGTATT TCTATCAGTA
362621 ATATGAAATT ACTGAAAAA AATAATATT AGAACAAAT ATTTTCTGAG
362631 AATTTATAAT ATGTTTCTCT TTTCTCTCTA TCTGTTTAT TCGCTGTGAA
362641 GACAGAAATG ACATCTCTT TTTTCTTAGG CTTGAGTCTG TCGAAATATA
362651 ATAAATAAAA CTCTCTCTAT ATAAATCTCT TCTCTCTCTA TCTATCTCT
362661 GAAGCTTGA GGAAGAGCTT TGTCTACTTT TTTCTCTAG CAGCTCTGCT
362671 TAAGAACTGG AAAGAGAGCT CAAAGAGGA AGGAGCTTGA TGAAGCTGCT
362681 AGGAGCTTT GTGCTCTAGA AGCTCTGCTT CTTGCTCTG ACTCTCTGCT
362691 TCGCTGCTCT TTGCTGCTCT AGCTCTGCTC ACTGCTGCTG CATTCTCTGA
362701 GGGCTCTAGT CTCTCTCTG GTGAGCTCT TCTAGTAACT GAAAGATATC
362711 CATGCTGAGG AAATCTGCTG AATCTGAGG ATGATCATAA GGTCTCTAGC
362721 TTTCAAGATA CTGCTCTTAA TGTCTACTTA CTGCTAGGCA AGAATTTTAT
362731 ACTTCTCTTT CACTCTCTT TTTCTACTG CGTCTAGGAA ATTTATCTTT
362741 AAAATCTAGT TTAATAGCT GGTCTGATG ACATCTTTA TATGCTCTAGC
362751 CTAAGCTCTT AGATGCTCTA GTTCTTAATT CTTGAGCTAA CTAAGACATA
362761 AATAAATCTG ATGCTCAAGG CTAAGCTCT TCTCTCTGAC TAATGCTTT
362771 TTAATGCTTA TTATAAAAA GCTCTCTATT CAAATATGAG ACTTAATTAAT
362781 TTTATATCT ATTTCTTAA ATCTGAGAG CTCTCTCTCT ATTTGAGCTA
362791 AATAAGAAAT TTAATTTT TAACTCTTAA ATTTGCAAT ATTTCTCTGA
362801 AAATCTTCA TCTCTGAGT TATAGGAA TTAATATTA ATTTCTCTCT
362811 TATTATATT TATTAAAT ATATAGAT TTAATCTCT TTTATTAAT
362821 ATTTAAAT TATTATATT TAAATCTT TTAATATTA TTTATTAAT
362831 TATAATAT TAAATTAAT ATTAATTA TTAATTAAT TAAATTAAT
362841 TTAGTAAAT GGAAGTAA TAAATGAG TGTAAAGAA ATTTCTTAG
362851 TTTGAGATC ATAAGCTTA TTTTAAAT GTTACATTAA AATATAATAT
362861 CTGCTGTAAT AATTATCTAG TTTGAGATC TGTCTCTATA AGAAGTTAAA
362871 TATATTTTC AGGATAATGA GTTTGCTG ATTAATGAAT GTATTAAGAT
362881 GCTCTGAGG TATTCTATCT CAATAGTAA CCGAGGCAAA TATTAAATAT
362891 TTTATATA TCTCTGATA ATGAATATCT TTTGAAATAT TAAATTAAT
362901 ATTTCTCT ATAAAGTTT GCTCTATATA AAGTTCTAGT TTAATTTTA

362351 CTGTGAACAG ATCTGAAGCT TTAAAAATAA AATTGCCCCG ATGTTTTATT
362361 TGGATCCGTT CTGCTTCCTT CTAAAAAGCA CAGGAAAGC CCAGGGAATC

FIGURE 3. page 116 of 173

365401 AAATTTTTC AATTACAGCT GGGTAATTGT TTAGTGGAGC TATCGAGTT
365451 TCAAGGGTGC CAGGTCATCT GAGCCAACTG TATGCACACA GGCATCAAT
365501 CATAGAGTTG AGAAAGTATA CACTGTTGGT GGTGGGTGG GGCCTTCAA
365551 GSACTCATATG TTAATTTTGC CTTCTTCTTT GTCAACTATT TGGGGGATAA
365601 TACATAGTGA AAGGAGTTTA TTTAAGGGT ATAAATATCG TATATCTGA
365651 AAATCAGCTA TAGGTAGGGA TATPAACCTC ATCTTATTA AAAAGCTTC
365701 ACTATATGTA TGTGAACAGT CACTTGGCTG TACTGTATCT GTTATAATAA
365751 CATACATATG TAAGATGTGT CTTTCTTAC ATACACCCAA ATATGGAGCT
365801 GGCATATAT TTAGAGCAAG GACAAATTTG GGTGGAGAG GGGAAATCAA
365851 GCACTCTTCT TTTTCTTAT GGCAGCTAT TTTTCTATG GTTCAATATG
365901 AGATCTTTCTA AAATTAATTT AGAAATACCC AAAATATATT TTGTGAGACA
365951 ACTATATAT TTTTCTATG AATTCTTAT TATTAAGCT TTACCTGCAA
366001 TTAGACACAG TAATTTCTTC CTGGAAAAAT TCTTTTAAAT AGTATTTCTG
366051 ACATAAATGG CATCTTTAAA CAGTCTTAT CTTTCAATAT ATACCAATG
366101 TCTCAGGGGG CTTGTAGTAT ATATAATAAT AAAGTAAGAG TTCTTGATAA
366151 ATTAGAGATC TATTTTCTAG TCACAAATTA ACCTAAATCT TAGTCTCTGA
366201 AGACAAATAG CTTTCTTAC CTTTCAATTT TTATAGATCG AGAATTTAAG
366251 AGAAGCTTAT TAGGTTTTC TACTCTAGG TCTTTTACAA GGTGGAAGA
366301 ATCTGAGCTG ACTCTTCTTA CTCTCAATTA CTGAGCTTTG CAGCAAGGCT
366351 GATTTCTCTC AGACCAATTA TTTCTTCTG TTTTCTAGG AGAAACAGCT
366401 TAAGAGAGAG TGTGAGAGG CACACTCTCA GTTATCTGCT CAGTTCTCTG
366451 AAAGATCAAT AAGGGATGAT CTCTTTTCAA GCTTCTTAC TAGCTCTTCT
366501 GGTGGCTGAG ATGATCTTCT TCTGAGTTTA CTTAGCTGAG CTTTCTAGCA
366551 AGGTGCTTCT CTTCTAGAGC AACTCAATGG GCTGCTTTCT TCTAGAGCAA
366601 CAGCTTAAGA GAGAGTATTA GATGAGACA AGACAGAGGC CACAAGCTTT
366651 TTACAACCTA ACATAGTAT CACATCTTTT CAGCTCTCT ATATTTCTAT
366701 CATATGAAGC AAGTCAGTAA CTCTAGGCTA CACTCAAGAG GAAGGCTATTA
366751 CATAAAGACA TGAATACAG GAGGAGAGAA TCTTAATTTA AGGCTCTAGC
366801 CTTTCTCTCT GGAATTTATA TACTTACTCT TAATTTAGTT CAGAACTCTC
366851 AATTTTCTAT TACTCTAGG AACTTATTT TGTATGCTA AATTTCTCT
366901 TAAAACTGCT TAATCTGATC ATGTCATTTA ACAACTGGTA ACTGCTCTCA
366951 AGAGAATGCT TAATCTCTCT ATTTATGAGC TTTATATACA GTTCTAATAA
367001 ACAGTATTTA ATGCTATTTA AAGTCTTAGG CTCTAAAGGC AAGTTGCTCT
367051 GCTTCTAATC CTGCTCTCTC CAGTATCTCA TTTTATGCTC CTGGGAAAGT
367101 TTGCTAAGCT CTTGGGACTT TAATTTCTCT ATTTGAAAGCT GAAATGCTAA
367151 TAAGAGCTAC TTTATAGGAT TATTGTGAAA ATTCAATGAG ATAAATCTTA
367201 TGCAGCTCTT GGCACAGTCT CTAGGACATA GAAAGAGCTT AAGAAGGGTA
367251 GGTGTGTTAT ATAATTTCTC ATTTTATCTG AGCCTTTTCA TGCTATATTC
367301 TGCAAGCAGA GCAAACTACA GTAGAGTCAA TTTTCTCTC TTACAAAGCT
367351 GTCTTTATCT GAAGAGCTCT CATTATTTCA TAAAACTCA ATTCAGAGAG
367401 TTAAGTTTTT CTACAGAAAG ACTTTATACA CACAATAATG CACATACTTA
367451 AGCATACAAT TTTGGACAAA GTGGTTTCTC CTGCTCTCTC TCAGCTCTCA
367501 TGTATAACTC TATCATGGTG TTTATCACA TGTATCTGCA TTGTTATTTT
367551 TCTATGCTCT TATTTAGGAT ATGAGCTTT CTATAGAGCT TTTTATTTCT
367601 CTATCTAGAG AATTTAGGCT ATGCTCTCT ATATAATAAA TATCTCTCT
367651 ATTAATTTCT TATTAATCT TATTAATAAT AATTTATTTA CATTTTTTCT
367701 ATTAATTTCT TATTTATCT TTTTATCT AATTTGATA CCAATTTTCT
367751 ATTTATTTCT TATTTATCT TATTTATCT AATTTATCT AATTTATTTT
367801 TTTATTTCTA AATTTATCT AATTTATCT AATTTATCT AATTTATTTT
367851 TCTTATATCT TATTTATCT AATTTATCT AATTTATCT AATTTATTTT
367901 TTCTGTTAT TTTGCTTTT AATTTATCT AATTTATCT AATTTATTTT
367951 ATTGCTTCTC TCTCAAGCTA AACTCTCTC TCTGCTTTT ATTTTTTTTT
368001 TCTTTTTTTT TTTTATGAT CTAGTATTTT TTTTTTTTTA TTTTATTTTA
368051 TTTTAAATTT ATCTTTTAA TTTTATGCTA CAGTCTGAGA ACGTGGCTGT
368101 TTTTATTTTA TTTTATTTT TTTTATTTT TTTTATTTT TTTTATTTT
368151 CATATTTTAT ATTTATTTA TCTCTAATG CTATCTCTCT CTTCTCTCTC

FIGURE 3. page 117 of 173

371751 GGAACGTAAT GTTCTAATAA GATATGCAAT TCCAACTGAA AACAAACAAA
371751 AACCAAAAGG ACATATCCCT TAAGATTGAC TCAACTAGTA CUGTTGTCAA
371801 AGATCCCTAG ATGGGCCCCA GTAGTCAATT CTTCCCTGCTT CTTTGTGAC
371851 ATGGTAATAA TTATTGGCTT GATAGAAAAC TATCAAGTTC AGCCCCAAGAG
371901 TATCTTCTAT TCAGGAGCAT CTCTGGGGCT ACTTCTGCTA CAGGGTAAAA
371951 AGGATACTTG TTCAATTGCT GTTTACTGAA GTTTACTGTA TGGTACTAAA
372001 ATATGATTTT GCTCTCAAAAT GTGTGCTTTT ATATGAATTG ACAAAGCTTT
372051 ACTTTTATTT ATAGCATATA ATTTATATAA AATATTAGT TATTAATAC
372101 CAGCTTAAGT TTTCAAAAT ATATATAATA AATATGAAAG TAAATACAG
372151 TTGCTCAGAC GTATAATCT CAAAATTGGS GAACTATAAG CAGGAATAT
372201 GTTGAAGCC AGCTCTGTA ACATAGCAAG ATTCTCTCTT CTACAAAAAT
372251 AAAATTAAAA AATTAGGAGT ATGTGGTGGT ATGGAGCTGT AGTCTAGCT
372301 ACTTGGGAGG TTGAGGAGG AGGGTCACTT GGGGCTGGAA GTTCTAGGCT
372351 AGAGTGAAGT ATGATTAAT CACTGCACTT CAGCTGCTG AACAAGGAA
372401 GCTCTTTCTT TTAAAAAAA AAAAAGGAAA AATGCTGCT TGGAGTGG
372451 CAGGCTGCTA ATTCAGGAG TTGAGGAGG CTAAGGCTG GGAATATGAG
372501 GTCACTAGAT TGAGAGCAGT CTGGGAGGTC AGGAGATTGA GGGCATCTG
372551 GTTAACAAAA TGAATTTCTA TCTCTACTAA AAAATACAAA AATTATCTAG
372601 GATGCTGGGC ACTTACTGCT AGTCTCAGCT ATTTGAAAAG CTGAGGCAAG
372651 AATATCTCTT GAGCTCTGTA GCTGAGGCTT GATATGAGCT GAGATTAAG
372701 GACTGCACTC GATCTGCTG AACAAGTGA GATCTGCTCT GAAAAAATA
372751 AAAAAAATAA AAAAAAATAA AAAAATATAA TACTTGTCT AAGATATATA
372801 AATAGTAAAA GAAATTTATA TTCTCTGCT AAGATTTCT GTTGATAAG
372851 TTGCTAATTT TGAAGTATA AATGGAAT TAGATATAA GAAATTTA
372901 TTGCTTTCTT TTGATTAAT TTATATCTTT TAGATGAG AGATAGGTA
372951 GATTGTATTG AGATTTTCT TTAGATCTT GTATCTCAAT TATTTTAAAT
373001 TTTTAACAAT CTTGAGAGG TTTTCTCTG TGATGGAAG TTTGAGAGT
373051 TCAGATGCTC AGTAACTAGA CTCTCTCAT TTAACATAAA CAGGTATCAA
373101 ACACATAAAA CTGAGGCTCT TCTGAGCTC AGAGTCTCA GATTAATAC
373151 TCCAGATGG AGAGGAGAG GAGAGTGGG CATTAAAAA AGCTGAGAG
373201 TGTGACAGAG CTGATCTGCT GGTCTAAATG TTCTATCTCT TTCTACATC
373251 CTATGATGAA CTTACTTCT CAGTGTGATG TTATTAAGG ATACAGCTG
373301 TGGGAGGTAA TTAGATGAG AGGGTAAGAG CTTTATGAA CAGATTAAT
373351 GCTTGGCTCC TTGAGGAGG TGAGGATGCA ACAGGAGGT GGCATCTGT
373401 AATCAGAAAT CAGGCTCTA CAGATACAG AATCTGCTCT TGCTTGATC
373451 TTGGACTTCT GATTTGCTC AACTGTCAGA AATAAATTCT CATGCTTTAT
373501 AAGCAAGCCA CTTAGGGCA TTCTGTTATA GCAAGGCAAA AGGACTAAG
373551 TTCCGGCACA TAAATGTAAG ATTTCAAGG CTGATGAGG ATTGTTTAT
373601 TCTGTTCTTG TTACTATAA GGAATGCTG AGCTAGTTA ATTTATAAG
373651 TATAAAGCTT TACTGCTCT ACAGTTTACA GGTGCTGCAA GAAGCATGCT
373701 GTCAGCACT CTCTTAAAG GGTCTCAGG CTGCTTCACT TCATGCTGGA
373751 AGCAAAAGA CAGGCTGCTT TGTAAGGCA AGAGAGGAG CAAGAGAGAG
373801 AGGAGGAGT TGGAGGCTC TTCAACAACC AGGCTCAGA GAACTAATA
373851 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
373901 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
373951 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374001 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374051 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374101 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374151 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374201 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374251 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374301 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374351 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374401 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG
374451 AGGATTAAT TATTAATTT TTTAGGCTC TTTAGGCTC TTTATAGG

FIGURE 3. page 119 of 173

374851 GGGAATTATG GATGCTGAGG GATGCTGAGG AAGAAATGTT TTAATTCGCG
374901 TTAATTAAGTT ATTGTAAGTT TTCTGAGGCT TTAATTAAGTT TTAATTAAGTT
374951 TGATGGAATT AAAATCTATG TTTTATATAA TTACCTAGTG TTGCGCGGTT
375001 GTTTATAGGA GATGGAATG GAACTAATAG AGTATTTT AAATTTTCTT
375051 TCATAATATA ATATTGTCAG GCAAGGCTTC CCTAATATAT TTAATATATA
375101 GTGCTGCTAT TGTGCTGCTT TTAGACTGTA GTTAGATAT TATAAGGGA
375151 TAAATATGCT TATTAGCTTT ATATACTTAT TTGCAAAACA GCTATCAATC
375201 TTACAGCTGT AACTGCTTTA TAGTGCTAAG GAAATAGATG GGGTCAATTA
375251 AATAAAGAGA GATAAGGCTG TACAGAGATG AGATGTAAG TCTGATTCCA
375301 TGCAATAGTG GTTAAATCTT GAATATCTTC ACAAGGTTGAG TTTAGTTCAA
375351 AACAACATGC TATAAATCTG AATAATGATG ATGGAATTTA AAAGTAATTA
375401 ATGCTGCTGA GCTATGCTAT TGGGAAATA GATGCTGCTT TTGATGCTAT
375451 AGCTGCTTAA AATTTGATAG AGAAAGATA AAAATGCTAT AAAGGATGCT
375501 ATGAGCTCAC AACAGGATGC AATTTATAT GATAGCTTAT GATTTTCTT
375551 TAAATGCTGA ATATTGATAT AATGAGCTTA ATAGAGCTAG ATTCTGCTTA
375601 TAAATGCTGA GAATAGATAG GCAAGCTATTA CTGAGCTATGA CTGAGCTATTA
375651 TGTGCTGCTA CAAAGCAATA TCTGCTGCTA GAAATGATG GATGCTGCTA
375701 AGCTTTGCTA CTAGAGCTAT TAAATGCTA ACAGAGCTAT CTGAGCTATGA
375751 AATTTTCTGA TGCAGAGCTA TGCAGCTTAA TCTGCTGCTA GCAAGCTATTA
375801 TGTGCTGCTA AATGCTGCTA AATGCTGCTA AATGCTGCTA AATGCTGCTA
375851 TCTATAGCTG AATGCTGCTA AATGCTGCTA AATGCTGCTA AATGCTGCTA
375901 GTTGTGCTAT AGAGCTGCTA TTTATATCTA CCAAGGCTAT GATTTCTT
375951 GACTAGCTGA AATGCTGCTA GATAAGCTAG TGCAGCTATTA ATGGAATCT
376001 GAGAGCTATG GAGGCTGCTA AATGCTGCTA GAGGCTGCTA AATGCTGCTA
376051 AGTATGCTAT GAGGCTGCTA AATGCTGCTA AGGCTGCTA AATGCTGCTA
376101 TCTGAGCTGA GTGCTGCTA GATGCTGCTA TATGCTGCTA CAGAGCTATTA
376151 TGATAGCTAT GAAAGCTAT AATGCTGCTA TGGTAAAGCT GAATTTCTT
376201 ATTTAAAGCT AATGCTGCTA AATGCTGCTA TTTGCTGCTA CTGATGCTT
376251 ATCTGCTAT TCTTTTATGA AATGCTGCTA GTAGAGCTAT ATAGTTCTT
376301 TTTGCTATGA TCTATGCTA TTAAGTAAAG AGTGGCTAT CCTATATAT
376351 GCTATGCTAT TTTTATATGA TTTGCTATGA TTTGCTATGA AGGCTGCTA
376401 AATGCTATGA TTTGCTATGA AATGCTATGA GATGCTATGA ATGCTATGA
376451 ATATGCTATGA GCTATGCTA TTTATGCTA AGGCTATGA ATGCTATGA
376501 ATATGCTATGA AATGCTATGA TTTATGCTA AGGCTATGA ATGCTATGA
376551 TAAATTTGA TGAAGCTGA CAAAGGCTAT AATGCTGCTA TTTGCTATGA
376601 TATATGCTAT GTATGCTAT GTATGCTAT GTATGCTAT GTATGCTAT
376651 CAAAGCTGCTA ATATGCTAT GTATGCTAT GTATGCTAT GTATGCTAT
376701 AATGCTATGA AATGCTATGA AATGCTATGA AATGCTATGA AATGCTATGA
376751 TATGCTATGA AATGCTATGA AATGCTATGA AATGCTATGA AATGCTATGA
376801 AATGCTATGA AATGCTATGA AATGCTATGA AATGCTATGA AATGCTATGA
376851 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
376901 GATATGCTAT GATATGCTAT GATATGCTAT GATATGCTAT GATATGCTAT
376951 AATTTGCTAT AATTTGCTAT AATTTGCTAT AATTTGCTAT AATTTGCTAT
377001 GATATGCTAT GATATGCTAT GATATGCTAT GATATGCTAT GATATGCTAT
377051 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377101 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377151 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377201 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377251 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377301 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377351 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377401 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377451 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377501 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377551 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377601 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA

377651 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377701 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377751 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377801 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377851 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377901 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
377951 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA
378001 TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA TTTGCTATGA

FIGURE 3, page 120 of 173

378001 ACAATTGTTT TTAATTCTTA TGGTTCTGTG GAATTGGMAT ATAGCTATTC
378051 TGGTACTTTT TATTCTTGG ACTTCTGAGT TCTTAATGAA GTTGTGAGA
378101 TCTTCAAAAA GAACAAGTCC ATAAGGCAAA TGACAGCTT CCAAGAACCT
378151 GTTACTAAAG TGAATGACTT SAGTAGATTC CTGTGTTAG AGTGGGTTT
378201 TATAGATCTT TAATTGATTT AACCATCAGA CTGTGCTGGA CCAAGTAAGA
378251 CTGATCAACT ACTAATATGA TGGAGATATC AATTTTGCTA AGGCTACTTA
378301 GTAATGGAAT TTAATCTGTC CCGATAGGA AAATTTAGCA GGAATGAGAA
378351 ATTAGTATTC CTTTTGTTA ABTTTAATTT TACTTTAAAG TCACAAATAA
378401 TAATTATGTA TATTTATGGG ATATAATSTG ATTTTTGAA ATACGTAAAG
378451 ATTTGTGAAT GACCAAAATC SGTAAATTA CAATTCATC ACCTAGTAA
378501 GCTATTAAAA ACCAAAAAAG AGGCTGAGA ATTTGAGAT CATACAGTT
378551 GCAAAATACG AGAAAAATGG TGTCAATAAT GAAGAAATC CTAAGCTTGC
378601 TTCAAGTAAAG TTGCAATCTT TGAATTTATT GTGACTATTG TGAATTTAAA
378651 TAAATTCCTT ACTAGTGGCA CCGTATTTGG TTATATTTT GTTTTCTATT
378701 TCTAATATCT ACPCTTTTGA CTCTCTCTCT CTCTCTCTCT CTCTCTCTCT
378751 CTCTCTCTCT TGTCTCTCT CTCTCTCTCT CTCTCTCTCT CTCTCTCTCT
378801 ATACACAAAG ATTCAAGAT CCAATAGAAAT CCAAGCTTTA TCTTAGGGAT
378851 TTCTAATCTT TTGTAAGTGA TGAATGATCT AAAATTCGAT AAGGACATA
378901 AACACATATT CCAAGGAAA TAAACAGCAA TGAAGCACTC TAAATTCCTT
378951 TAAATAACTT CTGGAGTTCA AGCAAGCAAG TAATCTCAAG CACAAATACG
379001 CATGCTCGAG TAGTATTTGG TTGCTGAGAT ACATACAGAG AATTTTATT
379051 TTCTCTCTTA TCTCTGAATT CCAATCTGGA GTCTTTCTGA TCTTTTCTCT
379101 TTAAGTGAAC TTAATCTTTG ACCTGAAAT GCTGCAAAAG TAGTAAGAT
379151 ATACTAATCT GTTCAATTTG TTTAAATTA GTAGTTAAG AAAAATAAAA
379201 TAATTGCTGA AATCTAGAGA TCTCTATAT GAATCTTATT TGGCAAGTA
379251 CATCATTTCT ACAGGAGGCG TGGAAAGTAT ACTCAAAATTT TAAAGCTGA
379301 AGAGACTTCA TAAATATGGA CTTTATTTTA AAGAAATACD ATTTCTAGAG
379351 TTCTAGGGAA ATAGAGAAAG TCAATCAATC TCTCTCTCTC AATCAAGCAT
379401 CATATGTTCT ATTTCTTTTA TGAAGGTTAT TCAACAGAGA CCAATTAAT
379451 GTTCTCTAGT TCTAGGATTT TTGCTTTTAT GAGGACATAT GCTATCTCT
379501 GCTTAAATGG GCTCTTTTCA AAGTCTTTGA GGGCTTTTAC AAAACAGTTG
379551 GTTTCTTAAA ATACCACTTT GTAGCTGGCG CAAAAACCA TAGATAAAG
379601 TGAGATCTAC ACAAACAATG AAAGCTTTTT ATTTTACTAG CAAACAGAGA
379651 TGGCCAACTG GCTTAAATCT CTCTTTTCTG CATTTCTAT CATTTGCTAA
379701 TTCTCTTCTT CCAAGGTCAG ACAAAGAGAG TGGCTTCTAT CAATAACTAT
379751 AATAGCTATT GAATGTTATT TGAATTTTAA TTTTGAGCTA TTTCTGTTAA
379801 ATATCTTAA AATGTTATTA TTATGATAGT AATGATCACT TATTGGGTA
379851 TTATGGTAAAG ATAGGGACTA TATGTTGGAAC TATATACATT TCTTATCTTA
379901 CAACTTCTAC AGTTGCTTAT GAATGTTATA TTCTGCTCT CATTTTCTTA
379951 GTAAGAAAAT TGACACTCAC GAGAGTTTAA AAATGGCCAA GGCAGAGCTG
380001 GGATATCTAA TAAGGCTCAG AGCTCTGAAT ATATCTCAGA GCTTGTCTC
380051 TTCTAGTATA TTGAGCTTAT TATGAATTTT TAATTTTGT ACATTGCTCT
380101 TGTTTCTTAT TTGTTGATGC CCACTCATGG CTATCTAGCA TTCTGTTTT
380151 GTTCTCTCTG TCTCTCTCTC ATTTCTCTCT ATCTCAAGAA CTTGCTATTA
380201 GCTCTCTGAG AATAGCTTAT TTCTATATA TTCTATATA TTCTATATA
380251 AATAGCTATG AATAGCTTAT TAAAGCTAT TTCTATATA TTCTATATA
380301 TTTTAAATAT TTTTCTCT TTCTCTCTAA ATATATATA TATTAAGAA
380351 AATAGCTTAT TATCTCTCT AATAAATGAG TTAATAATA CTATCTCTAT
380401 TATATAATA AATAGCTTAT TATATAATA AATAGCTTAT AATAGCTTAT
380451 GCTCTCTCTC AATCTCTCTA AGTGAAGAG AATATAGTAC TGCATTATTT
380501 TCTTAGGGCT TCAATAAGAA ACTACCATGA ACTAGGCTGG TTAAGCAAG
380551 ATATTCTATC TCTAGCAGTT CTAGAGGATA AAAATTCAG GTCAAGGCTG
380601 CAGCAGAGCG ATAGGCTCTC TCTGAAGGTT CTAGGCGAGA ATGTGTTTTA
380651 TGTGCTCTCT TGAATCTCT ATGTTGTTAG AATCTCTCT GTTCTTTTGG
380701 TTTGCTCTCT ATAGCTCTAA TTCTCTCTCT TGAATATAA AATCTCTCT
380751 TTTGCTCTCT TCTCTCTCT TTTCTCTCT TCTAAAGAA AATCTCTCT

378001 ACAATTGTTT TTAATTCTTA TGGTTCTGTG GAATTGGMAT ATAGCTATTC
378051 TGGTACTTTT TATTCTTGG ACTTCTGAGT TCTTAATGAA GTTGTGAGA
378101 TCTTCAAAAA GAACAAGTCC ATAAGGCAAA TGACAGCTT CCAAGAACCT
378151 GTTACTAAAG TGAATGACTT SAGTAGATTC CTGTGTTAG AGTGGGTTT
378201 TATAGATCTT TAATTGATTT AACCATCAGA CTGTGCTGGA CCAAGTAAGA
378251 CTGATCAACT ACTAATATGA TGGAGATATC AATTTTGCTA AGGCTACTTA
378301 GTAATGGAAT TTAATCTGTC CCGATAGGA AAATTTAGCA GGAATGAGAA
378351 ATTAGTATTC CTTTTGTTA ABTTTAATTT TACTTTAAAG TCACAAATAA
378401 TAATTATGTA TATTTATGGG ATATAATSTG ATTTTTGAA ATACGTAAAG
378451 ATTTGTGAAT GACCAAAATC SGTAAATTA CAATTCATC ACCTAGTAA
378501 GCTATTAAAA ACCAAAAAAG AGGCTGAGA ATTTGAGAT CATACAGTT
378551 GCAAAATACG AGAAAAATGG TGTCAATAAT GAAGAAATC CTAAGCTTGC
378601 TTCAAGTAAAG TTGCAATCTT TGAATTTATT GTGACTATTG TGAATTTAAA
378651 TAAATTCCTT ACTAGTGGCA CCGTATTTGG TTATATTTT GTTTTCTATT
378701 TCTAATATCT ACPCTTTTGA CTCTCTCTCT CTCTCTCTCT CTCTCTCTCT
378751 CTCTCTCTCT TGTCTCTCT CTCTCTCTCT CTCTCTCTCT CTCTCTCTCT
378801 ATACACAAAG ATTCAAGAT CCAATAGAAAT CCAAGCTTTA TCTTAGGGAT
378851 TTCTAATCTT TTGTAAGTGA TGAATGATCT AAAATTCGAT AAGGACATA
378901 AACACATATT CCAAGGAAA TAAACAGCAA TGAAGCACTC TAAATTCCTT
378951 TAAATAACTT CTGGAGTTCA AGCAAGCAAG TAATCTCAAG CACAAATACG
379001 CATGCTCGAG TAGTATTTGG TTGCTGAGAT ACATACAGAG AATTTTATT
379051 TTCTCTCTTA TCTCTGAATT CCAATCTGGA GTCTTTCTGA TCTTTTCTCT
379101 TTAAGTGAAC TTAATCTTTG ACCTGAAAT GCTGCAAAAG TAGTAAGAT
379151 ATACTAATCT GTTCAATTTG TTTAAATTA GTAGTTAAG AAAAATAAAA
379201 TAATTGCTGA AATCTAGAGA TCTCTATAT GAATCTTATT TGGCAAGTA
379251 CATCATTTCT ACAGGAGGCG TGGAAAGTAT ACTCAAAATTT TAAAGCTGA
379301 AGAGACTTCA TAAATATGGA CTTTATTTTA AAGAAATACD ATTTCTAGAG
379351 TTCTAGGGAA ATAGAGAAAG TCAATCAATC TCTCTCTCTC AATCAAGCAT
379401 CATATGTTCT ATTTCTTTTA TGAAGGTTAT TCAACAGAGA CCAATTAAT
379451 GTTCTCTAGT TCTAGGATTT TTGCTTTTAT GAGGACATAT GCTATCTCT
379501 GCTTAAATGG GCTCTTTTCA AAGTCTTTGA GGGCTTTTAC AAAACAGTTG
379551 GTTTCTTAAA ATACCACTTT GTAGCTGGCG CAAAAACCA TAGATAAAG
379601 TGAGATCTAC ACAAACAATG AAAGCTTTTT ATTTTACTAG CAAACAGAGA
379651 TGGCCAACTG GCTTAAATCT CTCTTTTCTG CATTTCTAT CATTTGCTAA
379701 TTCTCTTCTT CCAAGGTCAG ACAAAGAGAG TGGCTTCTAT CAATAACTAT
379751 AATAGCTATT GAATGTTATT TGAATTTTAA TTTTGAGCTA TTTCTGTTAA
379801 ATATCTTAA AATGTTATTA TTATGATAGT AATGATCACT TATTGGGTA
379851 TTATGGTAAAG ATAGGGACTA TATGTTGGAAC TATATACATT TCTTATCTTA
379901 CAACTTCTAC AGTTGCTTAT GAATGTTATA TTCTGCTCT CATTTTCTTA
379951 GTAAGAAAAT TGACACTCAC GAGAGTTTAA AAATGGCCAA GGCAGAGCTG
380001 GGATATCTAA TAAGGCTCAG AGCTCTGAAT ATATCTCAGA GCTTGTCTC
380051 TTCTAGTATA TTGAGCTTAT TATGAATTTT TAATTTTGT ACATTGCTCT
380101 TGTTTCTTAT TTGTTGATGC CCACTCATGG CTATCTAGCA TTCTGTTTT
380151 GTTCTCTCTG TCTCTCTCTC ATTTCTCTCT ATCTCAAGAA CTTGCTATTA
380201 GCTCTCTGAG AATAGCTTAT TTCTATATA TTCTATATA TTCTATATA
380251 AATAGCTATG AATAGCTTAT TAAAGCTAT TTCTATATA TTCTATATA
380301 TTTTAAATAT TTTTCTCT TTCTCTCTAA ATATATATA TATTAAGAA
380351 AATAGCTTAT TATCTCTCT AATAAATGAG TTAATAATA CTATCTCTAT
380401 TATATAATA AATAGCTTAT TATATAATA AATAGCTTAT AATAGCTTAT
380451 GCTCTCTCTC AATCTCTCTA AGTGAAGAG AATATAGTAC TGCATTATTT
380501 TCTTAGGGCT TCAATAAGAA ACTACCATGA ACTAGGCTGG TTAAGCAAG
380551 ATATTCTATC TCTAGCAGTT CTAGAGGATA AAAATTCAG GTCAAGGCTG
380601 CAGCAGAGCG ATAGGCTCTC TCTGAAGGTT CTAGGCGAGA ATGTGTTTTA
380651 TGTGCTCTCT TGAATCTCT ATGTTGTTAG AATCTCTCT GTTCTTTTGG
380701 TTTGCTCTCT ATAGCTCTAA TTCTCTCTCT TGAATATAA AATCTCTCT
380751 TTTGCTCTCT TCTCTCTCT TTTCTCTCT TCTAAAGAA AATCTCTCT

FIGURE 3. page 121 of 173

381151 CATATCTCTT TCTTTGCTTT TTTTCTTTT TTTTCTTTT GATGGAGTCT
381201 CACTCTGTCA COTAGGCTGS AGTGCTGTGS CACTATTTTA GCTCACTGTA
381251 AGCTTACCTT CCGGGGTCA AGCAATTTTC CTCTCTTACC TTCTCAAGTA
381301 GCTGGACTA CAGGCATGCG CCACCAAGCC CAGCTAATTT TTGTATTTT
381351 AGTAGATG CGGTTTACG AFGTTGCGCA GATGCTCTC AATCTCTTA
381401 CCTGCTATG TGCCCACTTC AGCTCTGAA AGTCTTAGGG TTACAAGAT
381451 GAGGCATGCG CCCCCTCTC TTTCCTATTC TTACCGCTA TTCACCCAC
381501 CTTCTTTTTC AAAGGCTGCG AAACCATGCG GTCAGCTCT TCACATGAT
381551 CTGCAAAATA TGATGCTCTC TTCTATCTGA TTTTATACAT TAATAATCT
381601 GTTCAATGTT AACATGCTTC CTCAATTTGG TCACCACTCT TTCTACAT
381651 TGGAGCTTTC ACTATGCTAT TACCTGAAA GATCTAAGCG TTCTGAGCT
381701 TCTGATTTTA TGAGCTGAAA GAGGAAAGCG AGAGCAAGAA AAGATCTAC
381751 TCTTCTCAT AAATCTTGGC CAGGATGCTC TACTAATGAG ACCCATGCG
381801 ATAGCTGAT TCAAACTGCG CTGCTGCTG TACTCTCTGA TAAGGCTGAG
381851 ACATCTGAT AATACTGAG CTCTAGGAA GAGAGCAAG AAATCTTCT
381901 CACCAACAAC TCTCTGATC ATAACTTTT CTCTCTGAA TTCTCTGAT
381951 TTTTATTTT ATAGCTCTT TCTCTTAA GACCAAAAT GTTCTGAGT
382001 TTTGATCTT TACTATATC ATTACATCTA TATACTGAT ACTCTCTGA
382051 GCTCTAGGAA TACTGCTAT GCTCTCTT TCTCTCTGAT ATTTTATTA
382101 TTTCTCTAT TACTATCTT CTCTCTGAT TCTCTCTGAT TACTCTGAT
382151 CTCTCTGAT CTCTCTGAT TCTCTCTGAT TCTCTCTGAT TCTCTCTGAT
382201 AAACATCTA GAGCTCTAT CAGAGCTCT TTTATATCT TATTATCTT
382251 ATTATCTA TTTATCTT TATTATCTT TATTATCTT TATTATCTT
382301 TTTCTGCTA GATCTGATC GATCTGATC GATCTGATC GATCTGATC
382351 CAAGCTCTT GCTCTGATC AATCTCTGAT GCTCTGATC GCTCTGATC
382401 GAGAGCTGAG GCTCTGATC TCAAGCTGAT TCAATCTGAT TCAATCTGAT
382451 GTAGAACTA AGCTCTGAT TCTCTGATC GCTCTGATC GCTCTGATC
382501 TGCTGAGAG GTCTCTCTT TCTCTGATC GCTCTGATC GCTCTGATC
382551 CAGCCAAACA TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
382601 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
382651 CTAAGCTCTT CTCTCTGAT ATTTTATCT TCTCTGATC TCTCTGATC
382701 TTAAGACAAA GATAAACTA ATCTGAGGAG GAATCTGAT CTAGTCTGAT
382751 AGAGACAGCT AAAGGCTGAG GCTCTGATC GAGCAAACTA TTAGAATGA
382801 GAGCATCTG TATCTGATC ATCTGCTGAG CAGAGCTGAT TCAATCTGAT
382851 ATGGCCTAG AGCTCTGAG CAAAGCTGAG AGGCTATCT TCTCTGATC
382901 GTGGCTTGA GTTAACTTTA TCTCTGATC AGAACTGAT TCTCTGATC
382951 TGCATATAT TGAAGTAACT TCTCTGATC ATAACTGAT TCTCTGATC
383001 ACCTATCTT CTCTGATC GAGCTGATC CATATTTTAT GAGCTGATC
383051 TTTTCTGAT TATCTATAT ATCTGATC CAAAGCTGAT TCTCTGATC
383101 TTAGCTGAG CTGAGCTGAT ATGAGCTGAT TTATACATC ATCTCTGATC
383151 CAGCTGATC ACAGCTGAT ATGAGCTGAT ACAGCTGAT ATGAGCTGAT
383201 ATCTATTTTA ATCTAGCTC TCTCTGATC TCTCTGATC TCTCTGATC
383251 AGTCTGATC CTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383301 TCTCTGATC ATCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383351 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383401 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383451 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383501 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383551 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383601 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383651 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383701 TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383751 ATATAAGCT TTTGCTTTA TATAACATC AACTGTTAGA CGTTAAGCA
383801 ATAGCTGAT ACTAGCTGAG AGAACTGAT TCTCTGATC AGAACTGAT
383851 ATTTGATCT TCTCTGATC TCTCTGATC TCTCTGATC TCTCTGATC
383901 AAACTGATC TCTCTGATC GAGCTGATC TCTCTGATC TCTCTGATC

381151 CATATCTCTT TCTTTGCTTT TTTTCTTTT TTTTCTTTT GATGGAGTCT
381201 CACTCTGTCA COTAGGCTGS AGTGCTGTGS CACTATTTTA GCTCACTGTA

FIGURE 3. page 122 of 173

384301 TAAAGGGAAA CAGGAATAAT AATTCTGTAA TT TAAAAATC AATTTTCTGT
384351 AAGGAGAAAA AAAGGAGACA ATTAAATATA TAAATATTTC TTTTATTAAA
384401 AAAAGGAAAGA GAGAGAGAGT ATGGAGGAAT ATTTAACAAG TAAATGGGAG
384451 CAAAAAAGAG CAGGGCTTTG AAATCTAAT CTATATATAA AAAAAATTTA
384501 AAATCAACAAA GATCAAAAAA GACAAAAGAG GGCATATCAT AATGGGTAAAG
384551 AGACTGATGT AATAAAGAA CCTAAATATG CTAAATATAT ATGCACCCAG
384601 TAAAGGAAACA CCAATATTCG TAAAAAATTT TCTTAGAGAC CTACAAAGAG
384651 ACTTAGATTC CCTCTTGATA ATAGTGGGAG AATTIAAAGC CTCATCTTCA
384701 APATTAGACA CATCTAGACA CAAAAATTAAC AAGGATATTC AAGATTTGAA
384751 CTAGAGTGTG GATCAAGTGG AATAATAGA TCTCTACAGA ACTCTCCAC
384801 CCAATTCAGT AGAATATACA TTTTCTTAG TGGCAGATCA CACTATTTCT
384851 AAAATCAGCC ACATAATTGC AATAAAAAA CTCTTACCA AATCAGAAA
384901 AATGGGAAAT CATATAAGAA TGTATAAATT ATAAATTTTA TAATGTATAA
384951 ATTATAATTT CATTAATTTA TTATGAAAT TATAAATTA TAAAAATATA
385001 CCACAGTCCA ATCAAAATAG AAGTCAAGAT TAAGAAATTA CTCAAAAACT
385051 CAAATATACA TGGAAATTTA ACAAGCTTCT CTTGAATGAG TCTGAGTAG
385101 AGAAAGAAAT TAAGGAGAAA ATCAAGAAAT TCTTCCAAA CAAATAGAAA
385151 AAAGAGACAA CATAAGAAA TCTCTGGAC ACAGTTAAAA CAGTCTTAAG
385201 AAGGAAATCT ATAGCAATAA TTCTCCACAT CAGAAAGCTG GAAATATCT
385251 AATCAACAC CCTAAATCA CAAATTAAGG AACTAGAAA CAAATAGAAA
385301 ACAATTTCA AAGCTAGGAG AAGAAAGAA ATAACTAAGA TAAAGACAGA
385351 ACTGAAGGAG ATCAGAGAC CAAAAAAGCT TCAGAAAAATC AATCAATTTA
385401 GGAGCGGGCT TTTTAAAGG ATTAACAAA TAGATAGAGC ACTAGCTAGA
385451 CTAATAAGAA AGAAGAGAA AGAATCAAT AGACAAATA AAAAAATGAT
385501 AAAGGGGATG TCAGCAATCA CCTATAGAA ATAGAAACCA CCAATAGAGA
385551 ATAATATAAA CAGCTCTATG CAAATAAAT AGAAATCTA GAAGAAATGG
385601 ATAAATTCCT GGACACATAC ACCATCTCAA GACTCAACCA GTAAGAAATC
385651 AAATCCTTGA ATAACTGAT AATACTTCT GAAATTGAGG CAAATATTA
385701 TAGCTACTA ACCAAAAAAA CTTAGGAGC AGAGGGATTT ACAGCTGAAT
385751 TCTACAGAG CTACAAAGAG GAGCTGGTAC TATCTCTTCT GAAACTATTC
385801 CAAACAACAG GAAAGAGGG ACTCTCTCT AACTCATTTT ATGGGGCCAG
385851 AATCATCTTG ATACAAAGAC CAGGAGAGCA TACACACAAA AAAGAGAAAA
385901 CTTCAAGACCA ATATCTCTGA TGAAGATTTG TGTGAAGATC CTCTATAAAA
385951 TACTGGCAAA CCAAAATCCAG CAGGGCATCA AAAAGCTTAT CCAGCATGAT
386001 CAAGTGGGCT TCATCTCTGG GAGGCAAGGG CTGGCTTCAAC ATATGAAAAAT
386051 CAATAACAT AAGGATCAT GTAAAGAGAA CCAATGACAA AATTCACATC
386101 ATCTCAGTAG ATCAGGAAA GGGCTTTGAT AAAATCAAC ATCTCTACAT
386151 GTTTAAAACT CTCATATAAT TAGACATTGA TGGAAATATAT CTCAAATGSA
386201 TAAGAGCTAT TTATAGCAAA CCAATAGCCA ATATCATACT GASTAGGCAA
386251 ATGCAGGCTG CATTCCTTTT GGAACCTGAC ACAAGACAAC GATGGCTCTT
386301 CTCACACTG CTATTGAGAA TAGTATTTGA AGTTCTGGCT AGGGCAATCA
386351 GGAAGAGAGAA AGAATAAAG CTTATTTCAA TAGCAATAGA GGAAGTCAGA
386401 TTGCTCTCTT TGGCAGTTGA CATGATTTTA TATTTAGAAA ACCCATCTT
386451 CTCAAGGAA AATTTTCA AGCTAATAAA CAAATTCAGG AATCTTTGAG
386501 GATAAAGAA TAACTCTCAA AAGAGAAAG CATCTTTTA CTCTCAATAT
386551 AGAAGAAAT AATCTTATC ATCAATGAA CTCTTTTCA CAACTTTTAA
386601 AAGAGATA AATTTTCA CAGCTTTTAA CAAATTTT AAGAGAAAT
386651 ATAAATATCT TTTTAAAG AATAAGAAAT AATTAAGAA ATTAAGAAAT
386701 ATTATATCT CATTAATTTG AATAATTAAT ATTAATTAAT TATTAATTAAT
386751 GTCAAAAGTA ATTTATAGAT TAAATGCTAT TGGCATCAAG CTACCATTTGA
386801 CTTTCTTCA CAGAAATAGAA AAAATCTACT TTAAATTTCA TATGGAATCA
386851 AAAAAGAGCT GGTATAGCCA AGACAATCCT AAGCAAAAT AACAAAGCTG
386901 GAGTATGAT GTTACCTGAC TTCAAATAT GCTAGATGGC TACAGTAACC
386951 AAAAAGAAAT GTTACTCTA CCAAAAGAGA TATATAAGC AATGGAAAGG
387001 AATAGAGCT TAAATATAT CACAAATCAT ATAATAAGC CTGATATTTT
387051 ATAAATTTA TAAAGAAAT GAGGAAAGAA TTCTTATTT CATAAATAT

387101 TAAAGGGAAA CAGGAATAAT AATTCTGTAA TT TAAAAATC AATTTTCTGT
387151 AAGGAGAAAA AAAGGAGACA ATTAAATATA TAAATATTTC TTTTATTAAA

FIGURE 3. page 123 of 173

387451 TCTACAAGGA ACTTAAAAAT TACAAGAAAA AAACAACCCC ATCAAAAAAT
 387501 GGTGAAGGA TATGAACACA CATTTTAAA AGAAACATTT TATGTGGCTA
 387551 AGAAAATAT TAAAAAAAAC TCTTCACAC TGATCATTAAG AGAAATGCAA
 387601 ATTAAACCA CAGTGAGATA CCACTCATTC ACAGTAAATA TGAAGATTAT
 387651 TAAAAATACA AGAAACAAAG ACCGTGGGAA GGCTATGAG AAAACAGGAAT
 387701 GGTATTACAC TGTGGGTGG AGTGTAAATT AATTAAACA TTGTGGAAGA
 387751 CAGTGTGCA ATTCCCTCAAG AATCTGGAAC CAGAAATACC ATTTGACCCA
 387801 GCAATTTGAT TACTGGTAT ATCCCAAAAG GATTATAAAT CATTCCTACTA
 387851 TAAAGACAAT TGCATATGTA TGTTCATTTC ACCTATATTG ACAATAGCAA
 387901 AGATTTGCA CCAACACAAA TGCCTCATTA TGATAACTTC GATAAAGACA
 387951 ATGTAGCAAT TGTACACCAAT GGAATACTAT GCAGTATAAA AAAAGAATGA
 388001 GATCATATTC CTATTGAGTG ACATGAGCAA TCTTGAAGC CATCATTCCTC
 388051 AGCAAACTAA CAGAGGAAAT AAAAAAGAAA CACTTATGT TCTCATTTAT
 388101 AATTTGGAAT TGAAATATTA GAACATATTC ACACAGGAG TGGAAACACA
 388151 CACACCAATA CAGAGGCTTG TTGGGCTAGG GGAGAGAGG AGGAGAGACA
 388201 TTAGGACAAA TACCTAATTC ATGTGGGCT TAAAGGCTAG ATGATGGGTT
 388251 GATAGTTTAA TAAACCAACC ATGGTACATG TATACTATG TAAACAAACT
 388301 CATCATTTCA TCAATGATTC CTGGAATCTA AAGTGAATA AAAATGAAT
 388351 AAAATAAGAG AGAGAGAGGA AACTTTTAAA TTCTTTGAGA GAGCAACGGT
 388401 TTCTTATAAA TGAATATTAA AAGAAATAG TATCTGAAT ATTTATTAAA
 388451 ATGACATTTA ACAATGTAAT CATTAGCTGG CAGTTTCTG AGAAAAATGC
 388501 AAAAAATATC TTCTTATATA TTCAATCCAG AATGAAAAT TGAAGGTTTA
 388551 ATATGTAAAT CTAGCAAAAT AAAAGTATTT CAGTAAGAGA CTAAGGTTGA
 388601 TGATTTCTGG AATTTGCTG GTATTTTAA CTAACTTAAT GAGCAATGTA
 388651 GGTAAAGAAA TCAAGAGCAA TGGAATCTG CAGTTAGAT CTGTGASTAT
 388701 CTGTGAAGAT GATTTTCTCA TCCACCAACT TAACAGAGG TTGATGTCAA
 388751 AGATTTCAAG GTTGGGCAAA ATTTGGGCTG GTTCTACTCT GTATGGCTGA
 388801 ACACAGATTT ACATAATATG AACTAGATAT GAGAGAGGCA AAGTAAACAT
 388851 TCTGCTCTTT AAACAGGAAT CTAAATTTTC CTAATAAGAA ACCAACTCAA
 388901 TTCTTACAGA GGTAGGCTTC TATGATGTT TTAACCTAT TTCTTTTCTT
 388951 CAATCAGGAA ACTTATTTCT TAACATCTCT AGACATTTCT GAATAAGATT
 389001 CTAGAATTCT TTTTCTTAACT TGTTTATTTT GAAAAATTTT AAGTTTATTA
 389051 TAAATAAATA GTATCTATCT ATCATTTAAT TCAATTAATA ATCAATATAC
 389101 AGCTAAATCT CAGAGCTCTT CTCTCTCTCT TCTCTCTCTA CTCTGGATTG
 389151 TTCTGAGGAA AAGGCTAAT ATTATAACAT TTCTTTTATA AATATTTCTC
 389201 TCTGTATCTT GGTAGGCTAA AGACTATTTT TAAAGGCACT TAACTATAAT
 389251 ATCATTTCTG TACTACAAA CAATTAATCT CAAATATTTT TGTGATAGTT
 389301 TGTCTOCAG ATAAGGCTAA CTGATGGAAT CTCTCTTTCT CAGATGCATA
 389351 TCTTTCTCTT GTCAGAGAT AGAGAGCAAT CCGCTACTTT CATGAATCTG
 389401 GGTGTGGCTG CTCTCTCTTT TCCCAATAGA ATATGACACA AGTGAGGCTA
 389451 TAGAAGTTCT AGACTTTGAC CTGAAGCAAGC CTGGAGGTTT CCACCTCTTT
 389501 TGGGAGTCTT GAGGCTACAC ATCTTACTAC CTGGCTTAAH AGACCATAGG
 389551 AGAGAACATA TCTATTCTAT TATTGATTGA TCAATCTATC TATCTACATA
 389601 TATAGAAATA GAGGAGGAA CTCTCTATCT TCTCTGAGG CCACTTTTCT
 389651 AACTATCTTC ATCAAGCTAT TAGACATGTA AATGAGGCTT TCTTGAATCT
 389701 TCTAAGAAAT TCTCTCTCT AAATAGAT CTCTCTATTA CCACTCTCTA
 389751 TATCTCTCTG AGAAACAAAT TCACTATCTT AATGAGGCTT TAAATTTTCT
 389801 ATATAGGAA TATAGGAA TAAATTAAT AATTTCTCT AATATTTTCT
 389851 GTTCTATTTT GATAAAGAA ATAGAAAT AATGAGGCTT TAAATTTTCT
 389901 TTAATATTCA GTCAATATAT AGCTTATCTT AATCACTTTT TAAATATTTT
 389951 GGATAGAGTT GGTTCGTTTG AAGCAGGATT TCAACAGATA ACCCTAGAAC
 390001 TCAAAACAAT AATGAAATA TTTTATGCAT CTGTAAACAT TTCCCATTTT
 390051 ACCAACTACT TTTTAAAAA ATATCTGATG TTATATGGTA GCTCTGGATA
 390101 GATAGTCTT TTTTCAAAA ATTACTATCT AATTAACACA ATTTTTTAA
 390151 AAAAAAAT TGGTCTAGAT ATTAAATCTT AATTAAGAA AATTTATCT
 390201 TAAATGAAA TCCAGATCTT AGAATTTAA CTCTAGCTCT CTCTCTCTTA

387451 TCTACAAGGA ACTTAAAAAT TACAAGAAAA AAACAACCCC ATCAAAAAAT
 387501 GGTGAAGGA TATGAACACA CATTTTAAA AGAAACATTT TATGTGGCTA

FIGURE 3. page 124 of 173

390691 AAGAAATGTT CTCAGAGAGG CAAGAGTCTT GAAAAATCTT CAAAAATCTT
390692 STATCTTGGT GAAAAATTAA AACAATAAAT APAGAGATCT TCTGAATCAT
390701 TAAGATGATT ACCTAATAAG AAAGTACTGC CATCTAGCTG ATTACAGTAA
390751 TGATCACTGC ATTTGGATTG AATTCATGAT GCTAATGCTT GCTATATAAA
390801 TAAAGCTTTT TGAAGTTGTT TGGCTATTAA AAGTCATGAG ACAATTAAGC
390851 GGTACATAAA AACATGATA ATGATGAGA AATGAAAAGA ACAGTACCA
390901 TAACATTTGA TACATACCA GTTTCTAGAA ATGCAATTGC AAAACACACT
390951 GCATTCTTAT ACATACCAAA TTGAGAGCTT TCTGCTTCAA TGTCGCTATT
391001 GGAATACAAAC ACATGAACTT CCACTATTAA GAGATAAATG GTTTAGATAA
391051 TCATTTAATG TAGAATTCAA TAATGCTCTA AAGCTAAACT TAAGTAAAGA
391101 AAAATATTTS TATATTTTTT AASTAAAGCC ATTTAAATTS GCTTTTGAAG
391151 CCTAATAGGA ACAAGATTCA CATTAAGAAT TAGCTTAGTT TACCATGATA
391201 ACGTAAGTAA ATCTTTGAAG TGGTAATAC TACTCTGACA ACATACTTTT
391251 TCAAAAAATA CATTAAGATG AGAAGAGAGA AAAATTTGCT ATTATATTGA
391301 TTAAGCTATA CACAATAGTG AAATTTCAAT CATTTTTCAT CTACAAGAAAT
391351 GTCAATATT GATTTAGTAA TGAAGTTTTS AATTCATCTT TTTATAAATA
391401 TTTTATTTTT AAGCTTTTTT ATTTTCTGTC ATCTATTATG TTTTTCAGG
391451 GCTGCTATAA TAACTACCA CAAGCTGAGT GGTCTAAGAC AATAGAAATTT
391501 TATTTCTGCA CAATCTCTTG GTCTAGAAAG CTGAAATCAA GATGTTGGCA
391551 AGCTTTTCTT CTCTGAGAG TTCTGAGAGA AAAATATCTC TCTCTCTCTC
391601 TCTATTTGAG GTTCTGCTG CTGCTGAGAA TCAAGAGCAT TCTTTCTCTT
391651 GAGCTGCTAT CTGCTGCTG GAGCATGCTT ATTTCTGCTT TCTCTCTCTT
391701 TGTCTCTGTA TCAAACTTTT TCTCTCTCTT TAGGAGATACT AGTTATTGGA
391751 TTAAGGCTCA CCGCAAGCA CTGCTGAGCT ATCTTAACTT GATTIATATC
391801 TACAAAAAGC CCGCTTTCTAA ATAAAGTCACT ATTTATACTT ACTGCTGAAAT
391851 ATGACTTTCA CACATCTCTT TAGGCTAGAC AATTTAACTC ACAAGTCTATA
391901 TTAAGAGTTA TAAGCTATAA AATTTCTAA CTGTTTCTTAT TTTTGAAGAT
391951 ATTTATCTAA CATTTGAAA AAGATAATA TAAATCTCTG AATAATTCTC
392001 TTTCTTTTAA AAAAAAGAG CTGTATATTA TTCTCTTATG AGAAGCTTGA
392051 CCTAAGCTAC AAGCTCTGAG ATCTCTATCT AGTCACTTA GACTTCTGAG
392101 AACCTGGAAC TGGCTCTCT CATGCTGCTG CTCTACCTTA CTCTCTGCTG
392151 ATTTTATCTT TTAGTAAAA ATAAAGCTGCT TTAAATTTCT CCAACACACA
392201 ACACATGATT TTAGCTTTT TTAGCTCTGT TCAATCTGCT CCGCTCTGCTT
392251 GTAATATCTT TCTCTCTCTA ACTCTCTCAT CCGCTAGCTG TGTCTCTCTG
392301 TGACTCTAT TTAGCTCTCA TTAAGCTGCT ATCTCTTCTC AAAAACTCTC
392351 TGTGAAGACT AAGCACTCA TCTCTGAGCA CCACTCACTA TCCAGGCTCT
392401 TTAGTGAAGT GGAATCTCA GGAATCTCA TTTCTCTCA CATCTCTCTG
392451 CAAACAGACT ACAAACCTCA AGATCTCAGT GAGCTCTCTT TCCCATCTCT
392501 TCAATCTCA GCTCTTAGCA CAGTCTCTAT CTGATCTCTA AATGAGCTG
392551 TGGCTCTCTG CTTATCTCTG ATGGAAGAG TTTCTCTCAG AGTTCTCTCA
392601 TTTCTCTCTG CATCTCTCTT CTTAAAGAGG TATTCTCTCT
392651 GCTCTCTCTG GAGCTCTCTT ATCTGAGCTT TGTCTCTCTA GCTCTCTCTA
392701 AACTCTCTCA AATATCTCT TCACTCTCTA TGCTCTCTCT TTTCTCTCTG
392751 ATTAATCTCA CTTCTCTCTT ATGAAAGAG TTTCTCTCTT TAACTCTCTG
392801 GAACTCTCTT AATCTCTCTA AATCTCTCTT CTCTCTCTCT TCTCTCTCTG
392851 TCTCTCTCTT CCACTCTCTT TCACTCTCTA TCACTCTCTA TCACTCTCTT
392901 CCACTCTCTT AATCTCTCTA AATCTCTCTT AATCTCTCTA AATCTCTCTT
392951 ATTTCTCTT CCACTCTCTA AATCTCTCTT AATCTCTCTA AATCTCTCTT
393001 AATCTCTCTT AATCTCTCTA AATCTCTCTT AATCTCTCTA AATCTCTCTT
393051 TAACTCTCTT GCACTCTCTA TCTCTCTCTA CTCTCTCTCT AAACTCTCTG
393101 ATAATCTCTT TACTCTCTCT TGGATCTCTA AATCTCTCTA CTCTCTCTCT
393151 TGTCTCTCTT GCACTCTCTA TATCTCTCTA ATAACTCTCT CACTCTCTCT
393201 TCACTCTCTT TCTCTCTCTA ATAACTCTCT GCACTCTCTT CTCTCTCTCT
393251 CTCTCTCTCT AACTCTCTCT TCTCTCTCTA CTCTCTCTCT CAACTCTCTA
393301 TCTCTCTCTA TAACTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
393351 ATCTCTCTCT CTCTCTCTCT TATCTCTCTA CACTCTCTCT TATCTCTCTT

390691 AAGAAATGTT CTCAGAGAGG CAAGAGTCTT GAAAAATCTT CAAAAATCTT
390692 STATCTTGGT GAAAAATTAA AACAATAAAT APAGAGATCT TCTGAATCAT
390701 TAAGATGATT ACCTAATAAG AAAGTACTGC CATCTAGCTG ATTACAGTAA
390751 TGATCACTGC ATTTGGATTG AATTCATGAT GCTAATGCTT GCTATATAAA
390801 TAAAGCTTTT TGAAGTTGTT TGGCTATTAA AAGTCATGAG ACAATTAAGC
390851 GGTACATAAA AACATGATA ATGATGAGA AATGAAAAGA ACAGTACCA
390901 TAACATTTGA TACATACCA GTTTCTAGAA ATGCAATTGC AAAACACACT
390951 GCATTCTTAT ACATACCAAA TTGAGAGCTT TCTGCTTCAA TGTCGCTATT
391001 GGAATACAAAC ACATGAACTT CCACTATTAA GAGATAAATG GTTTAGATAA
391051 TCATTTAATG TAGAATTCAA TAATGCTCTA AAGCTAAACT TAAGTAAAGA
391101 AAAATATTTS TATATTTTTT AASTAAAGCC ATTTAAATTS GCTTTTGAAG
391151 CCTAATAGGA ACAAGATTCA CATTAAGAAT TAGCTTAGTT TACCATGATA
391201 ACGTAAGTAA ATCTTTGAAG TGGTAATAC TACTCTGACA ACATACTTTT
391251 TCAAAAAATA CATTAAGATG AGAAGAGAGA AAAATTTGCT ATTATATTGA
391301 TTAAGCTATA CACAATAGTG AAATTTCAAT CATTTTTCAT CTACAAGAAAT
391351 GTCAATATT GATTTAGTAA TGAAGTTTTS AATTCATCTT TTTATAAATA
391401 TTTTATTTTT AAGCTTTTTT ATTTTCTGTC ATCTATTATG TTTTTCAGG
391451 GCTGCTATAA TAACTACCA CAAGCTGAGT GGTCTAAGAC AATAGAAATTT
391501 TATTTCTGCA CAATCTCTTG GTCTAGAAAG CTGAAATCAA GATGTTGGCA
391551 AGCTTTTCTT CTCTGAGAG TTCTGAGAGA AAAATATCTC TCTCTCTCTC
391601 TCTATTTGAG GTTCTGCTG CTGCTGAGAA TCAAGAGCAT TCTTTCTCTT
391651 GAGCTGCTAT CTGCTGCTG GAGCATGCTT ATTTCTGCTT TCTCTCTCTT
391701 TGTCTCTGTA TCAAACTTTT TCTCTCTCTT TAGGAGATACT AGTTATTGGA
391751 TTAAGGCTCA CCGCAAGCA CTGCTGAGCT ATCTTAACTT GATTIATATC
391801 TACAAAAAGC CCGCTTTCTAA ATAAAGTCACT ATTTATACTT ACTGCTGAAAT
391851 ATGACTTTCA CACATCTCTT TAGGCTAGAC AATTTAACTC ACAAGTCTATA
391901 TTAAGAGTTA TAAGCTATAA AATTTCTAA CTGTTTCTTAT TTTTGAAGAT
391951 ATTTATCTAA CATTTGAAA AAGATAATA TAAATCTCTG AATAATTCTC
392001 TTTCTTTTAA AAAAAAGAG CTGTATATTA TTCTCTTATG AGAAGCTTGA
392051 CCTAAGCTAC AAGCTCTGAG ATCTCTATCT AGTCACTTA GACTTCTGAG
392101 AACCTGGAAC TGGCTCTCT CATGCTGCTG CTCTACCTTA CTCTCTGCTG
392151 ATTTTATCTT TTAGTAAAA ATAAAGCTGCT TTAAATTTCT CCAACACACA
392201 ACACATGATT TTAGCTTTT TTAGCTCTGT TCAATCTGCT CCGCTCTGCTT
392251 GTAATATCTT TCTCTCTCTA ACTCTCTCAT CCGCTAGCTG TGTCTCTCTG
392301 TGACTCTAT TTAGCTCTCA TTAAGCTGCT ATCTCTTCTC AAAAACTCTC
392351 TGTGAAGACT AAGCACTCA TCTCTGAGCA CCACTCACTA TCCAGGCTCT
392401 TTAGTGAAGT GGAATCTCA GGAATCTCA TTTCTCTCA CATCTCTCTG
392451 CAAACAGACT ACAAACCTCA AGATCTCAGT GAGCTCTCTT TCCCATCTCT
392501 TCAATCTCA GCTCTTAGCA CAGTCTCTAT CTGATCTCTA AATGAGCTG
392551 TGGCTCTCTG CTTATCTCTG ATGGAAGAG TTTCTCTCAG AGTTCTCTCA
392601 TTTCTCTCTG CATCTCTCTT CTTAAAGAGG TATTCTCTCT
392651 GCTCTCTCTG GAGCTCTCTT ATCTGAGCTT TGTCTCTCTA GCTCTCTCTA
392701 AACTCTCTCA AATATCTCT TCACTCTCTA TGCTCTCTCT TTTCTCTCTG
392751 ATTAATCTCA CTTCTCTCTT ATGAAAGAG TTTCTCTCTT TAACTCTCTG
392801 GAACTCTCTT AATCTCTCTA AATCTCTCTT CTCTCTCTCT TCTCTCTCTG
392851 TCTCTCTCTT CCACTCTCTT TCACTCTCTA TCACTCTCTA TCACTCTCTT
392901 CCACTCTCTT AATCTCTCTA AATCTCTCTT AATCTCTCTA AATCTCTCTT
392951 ATTTCTCTT CCACTCTCTA AATCTCTCTT AATCTCTCTA AATCTCTCTT
393001 AATCTCTCTT AATCTCTCTA AATCTCTCTT AATCTCTCTA AATCTCTCTT
393051 TAACTCTCTT GCACTCTCTA TCTCTCTCTA CTCTCTCTCT AAACTCTCTG
393101 ATAATCTCTT TACTCTCTCT TGGATCTCTA AATCTCTCTA CTCTCTCTCT
393151 TGTCTATCTT GCACTTTCTA TATTTCTAG ATAACTCTCT CACTTTATTT
393201 TCCAGATTCT TCTTTTCTCTA ATAACTAGCT GCACTCTCTT CTCTATAATAG
393251 CTCTAAATATA AACTCTCTCT TCTCTATAAA CTCTCTCTCT CAAATTTTCA
393301 TCTCTCTCTA TAACTCTCTA TCTCTCTCTA TCTCTCTCTA TCTCTCTCTA
393351 ATCTCTCTCT CTCTCTCTCT TATCTCTCTA CACTCTCTCT TATTTTCTCT

FIGURE 3, page 125 of 173

393751 TGTATATSTG TGGGATATTC ATAGCATTA AATTAGAAACG ACATTTCCTT
 393801 TTCTAAATTG CTTCTTTTAT GGCATTTCCT GAGCCATTAC AAAATTTTCAG
 393851 CTCTTTTAAAA CCGATATATT AAGGCTTAA ATTTACCCAA TAAATTACAC
 393901 TTAAGTGGTA GTTAAGTAA CTTCTTTGTT TGACTTTTGT TTTTAAAACT
 393951 TATCTTTTAA TTAATAAATC ATGSACTTTT CTACTTGGTA GAGACAAAAC
 394001 TGAATTTTAG CTTTCATTTT TTTCAGTAA ACTAAACTC TAAAAAGGTA
 394051 ACTGTTTTAG TTTATCTGAT GCGTTATAAG SAGAATAAAT CTTGGAGSTG
 394101 AAGTACCAAT TGGTCTGAA ACAGTTTGA AACTTTCCAG CTCATAATTC
 394151 TGAACATCTT CTTTATGAT TTCTCTTTT CAGTTCTCTA AATGTCATGG
 394201 AAGGCTTGA ATGCAAGTGT ATTTCTCCCT SAATATCAAA TACTCTTTCA
 394251 AAGTCTTAA AGTAAAGCTC TTTCTCTCT ATTTAAATCT CATTTGCTCT
 394301 TTTTCTCTA ATGTTAAAAA CAGATCTGAG TGGGGAATCT CTGCTTAATC
 394351 AAAATTTGAA TGAATCTCTT TTAATTTATC AAGGCTGAT TATAAATGAA
 394401 ATATATGTAA ATTAAGTCTG AAGTCTGAT CAAATAGACT GTTCTATATC
 394451 ATAACAACTA ATCTTTCTCT AGATTTGAAA ACTGCTATAC TAATATATCA
 394501 AAACCAACTT TGTGATTTCT TAAAAACAAT CATGATTTCT TACATCTGAG
 394551 ATGATCTAGT TTTCAAAAGA AAGATGAAA TTCTCTAGTA TCTGAGTGGC
 394601 AATATTCTAT ATTTCTCTCT TGAATTTAT ATTTATCAAG AAATCTCTAT
 394651 CTGATTTCTT TGAATCTCTT ACCTCTGATA AGTTTATATG GGTCTATCTA
 394701 ATGATCTCTT CTGATTTCTT AATATCTCTT AATCTATCTA AATCTCTCTA
 394751 ATAAATTTTA CTGATTAATC AGTTCTCTTA ATATTTGATA GTTCTATCTA
 394801 ATTAATAATG GATATTTCTT GATCTCTAT ATTTCTCTCT GATATTTCTA
 394851 CTCTCTCTCT TGAATCTCTT TGTCTCTCTT GATATCTCTT TGAATCTCTT
 394901 AAGATCTCTT AAGTCTCTCT TATCTCTCTT TATCTCTCTT AAGTCTCTCT
 394951 CTCTCTCTCT TATCTCTCTT TATCTCTCTT TATCTCTCTT AAGTCTCTCT
 395001 TACTCTCTCT CTCTCTCTCT CAATCTCTCT GATCTCTCTT TGAATCTCTT
 395051 ATCTCTCTCT CTCTCTCTCT CTCTCTCTCT CTCTCTCTCT AAGTCTCTCT
 395101 TTATCTCTCT CATATCTCTT TTAATAAATC TGAATCTCTT ATATCTCTCT
 395151 CAATCTCTCT AAGTCTCTCT TGAATCTCTT AATCTCTCTT TGAATCTCTT
 395201 CAATCTCTCT TCTCTCTCTT ACCTCTCTCT AGCTCTCTCT TTTCTCTCT
 395251 TGATTTCTCT ATCTCTCTCT GATCTCTCTT GATCTCTCTT AGCTCTCTCT
 395301 TTTCTCTCTT ATTCTCTCTT TAAAACTCTT TCTCTCTCTT CTCTCTCTCT
 395351 AAGATCTCTT TTTCTCTCTT CTCTCTCTCT CTCTCTCTCT TCTCTCTCT
 395401 ATCTCTCTCT CTCTCTCTCT AATCTCTCTT ATTTCTCTCT TCTCTCTCT
 395451 ATCTCTCTCT TTTCTCTCTT AAGTCTCTCT TCTCTCTCTT TCTCTCTCT
 395501 AGATCTCTCT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395551 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395601 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395651 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395701 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395751 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395801 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395851 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395901 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 395951 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396001 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396051 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396101 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396151 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396201 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396251 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396301 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396351 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396401 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396451 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396501 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT

396551 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396601 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396651 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396701 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396751 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396801 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396851 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396901 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 396951 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT
 397001 TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCTT TCTCTCTCT

FIGURE 3, page 126 of 173

396901 TTGTTTCAATG ATGCTCTCAG TTCTATTTTC TGCATTATTC TTAATTACTA
 396951 ATATAATACT TTATTIATTC AAAAATTTT TGTTAGGTAC CTTCAAAAGT
 397001 GACAGGCACT GTCTTAGGTT TAGAGATTCA GAAGTAAATC AGAATAAGTT
 397051 TGTCTTGTCC AGGAACCTAC ATTCTAGAAT TGAGAAAGAG GGTAGAGGA
 397101 TGGCAGAGGG GAAAAAGCA TTAATAACA AACCAACAAA CACAGTGCAG
 397151 AAAGGTTTCA GGAAAGAGTA AATGCTGTGA TGATAGCAAA GCAGGTGGAT
 397201 GTGATAGAGA ATGACCTGCA TGGATGGCTA ATTTGAATTG GAAATTACAA
 397251 AAGGCCAGTA AGGAGAGGCC ATTTGAGTTG AGACTTGATA GGAAGCAACC
 397301 ATCCACATGA GAGCAGCGTG CAGAGCATT CACACAGAAG GAAACACTAG
 397351 TGAAAATGTC GCATTTGGGG AACAAATTTG TTATGGTAGA GGAACAGAAA
 397401 GATGGCTGGT GGTGCGCAGG CTGAACACCA CAGTAAGAGG TGAATGCTA
 397451 AGGTTTGAGA AGCAGAGAGC AGAGACCAAA TCACCTAGAT ATGTGGGATT
 397501 TCTTACTTAT TCTGGCTGCA ATGGAGTCTT TGGAACAGGA ATGATACTAT
 397551 CCGATGGACA TTTTGAAGAC TGCAAAGGCT GTCATCTGCA GACTGGAGAG
 397601 TCAGGCTAGG AGCAGGGAAC TAGTTCAGAC CACATGTTGT GATGCAGGAC
 397651 AAAACAAC (SEQ ID NO:3)

FEATURES:

Start: 2192
 Exon: 2192-2267
 Intron: 2268-3943
 Exon: 3944-4173
 Intron: 4174-304163
 Exon: 304170-304325
 Intron: 304326-323096
 Exon: 323097-323325
 Intron: 323326-323583
 Exon: 323584-323604
 Intron: 323605-323934
 Exon: 323935-323958
 Intron: 323959-333600
 Exon: 333601-333615
 Intron: 333616-334850
 Exon: 334851-335288
 Stop: 335289

CHROMOSOME MAP POSITION:

Chromosome 2

ALLELIC VARIANTS (SNPs):

| Position | Ref | Alt | Region |
|----------|-----|-----|--------|
| 2192 | A | T | Exon |
| 2268 | A | T | Intron |
| 2269 | A | A | Intron |
| 2274 | A | A | Intron |
| 3196 | G | C | Intron |
| 4531 | C | T | Intron |
| 5282 | G | A | Intron |
| 5329 | - | G | Intron |
| 6291 | A | T | Intron |
| 7071 | A | A | Intron |
| 7074 | T | A | Intron |

| | | | |
|-------|---|-----|--------|
| 10777 | T | T | Intron |
| 10860 | - | A | Intron |
| 12422 | T | T | Intron |
| 13062 | A | C | Intron |
| 13245 | A | C | Intron |
| 13334 | G | A | Intron |
| 13043 | G | T | Intron |
| 13633 | - | G T | Intron |
| 13695 | - | G T | Intron |
| 14725 | C | A | Intron |
| 14777 | C | G | Intron |
| 14466 | T | C | Intron |
| 14095 | G | T | Intron |
| 14740 | A | G | Intron |
| 20813 | G | A | Intron |
| 21154 | C | A | Intron |
| 21221 | C | T | Intron |
| 21311 | A | G | Intron |
| 21413 | G | A | Intron |
| 21457 | C | G | Intron |
| 26694 | T | C | Intron |
| 26712 | G | A | Intron |
| 27014 | A | G | Intron |
| 27467 | C | T | Intron |
| 27915 | T | G | Intron |
| 28521 | C | T | Intron |
| 31637 | G | A | Intron |
| 31358 | A | T | Intron |
| 33347 | G | C | Intron |
| 34754 | T | C | Intron |
| 34779 | A | G | Intron |
| 34788 | - | T | Intron |
| 36982 | T | C | Intron |
| 40138 | C | T | Intron |
| 40309 | A | T | Intron |
| 40317 | T | C | Intron |
| 40648 | G | C | Intron |
| 41505 | A | G | Intron |
| 51758 | T | G | Intron |
| 51526 | A | G | Intron |
| 53401 | G | T | Intron |
| 53850 | C | T | Intron |
| 55145 | A | - | Intron |
| 55473 | - | G | Intron |
| 56247 | A | C | Intron |
| 57344 | - | T | Intron |
| 57505 | A | C | Intron |
| 58323 | - | C | Intron |
| 58401 | T | A | Intron |
| 58440 | C | A | Intron |
| 60138 | T | G | Intron |
| 61550 | A | G | Intron |
| 61836 | A | C | Intron |
| 62048 | - | C | Intron |
| 62121 | - | A | Intron |
| 62985 | A | C | Intron |

100000
100000

100000
100000

FIGURE 3. page 128 of 173

| | | | |
|--------|---|---|--------|
| 70095 | G | A | Intron |
| 70210 | A | G | Intron |
| 70460 | C | A | Intron |
| 70720 | C | A | Intron |
| 72080 | - | A | Intron |
| 72400 | G | A | Intron |
| 72570 | G | A | Intron |
| 72584 | G | A | Intron |
| 73200 | G | A | Intron |
| 73500 | G | A | Intron |
| 76400 | A | G | Intron |
| 77900 | G | C | Intron |
| 78630 | G | T | Intron |
| 78820 | C | A | Intron |
| 80040 | C | T | Intron |
| 80450 | A | T | Intron |
| 81150 | C | G | Intron |
| 81254 | G | C | Intron |
| 82100 | T | C | Intron |
| 82410 | A | C | Intron |
| 83710 | G | T | Intron |
| 84650 | G | A | Intron |
| 85140 | T | C | Intron |
| 86000 | C | T | Intron |
| 86180 | T | C | Intron |
| 86030 | T | C | Intron |
| 88600 | G | C | Intron |
| 126082 | C | T | Intron |
| 204093 | T | C | Intron |
| 204914 | A | G | Intron |
| 205039 | A | C | Intron |
| 205817 | A | - | Intron |
| 206118 | G | C | Intron |
| 206200 | G | C | Intron |
| 206649 | C | G | Intron |
| 210411 | G | A | Intron |
| 210911 | G | A | Intron |
| 211115 | C | G | Intron |
| 213700 | T | A | Intron |
| 213809 | T | A | Intron |
| 214402 | T | C | Intron |
| 216105 | G | A | Intron |
| 218589 | G | A | Intron |
| 218710 | A | G | Intron |
| 218802 | A | - | Intron |
| 218801 | - | A | Intron |
| 218801 | A | - | Intron |
| 218802 | - | - | Intron |
| 218802 | T | - | Intron |
| 221804 | C | G | Intron |
| 222201 | C | G | Intron |
| 223071 | G | A | Intron |
| 226801 | C | A | Intron |
| 227089 | T | C | Intron |
| 228824 | T | - | Intron |
| 230010 | A | T | Intron |

1000
1000

1000
1000

FIGURE 3, page 129 of 173

| | | | |
|--------|---|---|--------|
| 243663 | G | A | Intron |
| 246747 | T | T | Intron |
| 249097 | A | G | Intron |
| 249256 | G | A | Intron |
| 249312 | T | C | Intron |
| 252710 | T | A | Intron |
| 253417 | A | G | Intron |
| 253793 | A | T | Intron |
| 255763 | G | A | Intron |
| 256093 | - | A | Intron |
| 256094 | A | T | Intron |
| 256405 | T | G | Intron |
| 256459 | T | C | Intron |
| 257853 | T | - | Intron |
| 257940 | G | A | Intron |
| 258153 | A | T | Intron |
| 258404 | C | T | Intron |
| 258614 | A | T | Intron |
| 259315 | A | - | Intron |
| 260136 | C | T | Intron |
| 260353 | C | T | Intron |
| 260430 | G | A | Intron |
| 260681 | C | G | Intron |
| 261374 | G | A | Intron |
| 267289 | C | T | Intron |
| 267351 | C | T | Intron |
| 273044 | G | T | Intron |
| 273076 | C | T | Intron |
| 275029 | G | A | Intron |
| 275637 | T | C | Intron |
| 276093 | - | G | Intron |
| 276111 | C | G | Intron |
| 276371 | T | C | Intron |
| 276114 | G | A | Intron |
| 276136 | T | C | Intron |
| 276426 | T | C | Intron |
| 276439 | A | G | Intron |
| 276561 | C | T | Intron |
| 276984 | C | T | Intron |
| 277073 | T | C | Intron |
| 277593 | G | T | Intron |
| 277891 | C | T | Intron |
| 278129 | T | A | Intron |
| 278299 | C | A | Intron |
| 278471 | C | T | Intron |
| 278621 | T | T | Intron |
| 278711 | T | C | Intron |
| 278741 | T | T | Intron |
| 278764 | - | T | Intron |
| 278784 | A | G | Intron |
| 278794 | C | T | Intron |
| 278795 | A | G | Intron |
| 278799 | T | T | Intron |
| 278833 | T | A | Intron |
| 278843 | T | T | Intron |
| 278847 | C | T | Intron |

FIGURE 3, page 130 of 173

| | | | |
|--------|---|---|--------|
| 355895 | G | A | Intron |
| 357019 | G | C | Intron |
| 357738 | - | A | Intron |
| 357836 | G | A | Intron |
| 360817 | A | T | Intron |
| 362566 | T | C | Intron |
| 364521 | - | C | Intron |
| 366393 | A | C | Intron |
| 367405 | G | A | Intron |
| 367694 | T | A | Intron |
| 371966 | C | T | Intron |
| 382277 | T | - | Intron |
| 392081 | A | T | Intron |

Context:

DNA

Position

| | |
|------|--|
| 83 | CTAGAAGAGCCTAGAGCTTTTCATTGGCTGCTTACTTTTAAAGTAAA CTTATTAGCCAT
AAAATTCAA CATTCTAGGAAC
[G,T]
TCTTCCGTTTGATTCATTITCATTACTCTGATATTTAAAGAGGAA 3AATTACTT C3GTTCT
TGATITTTGTTTAGATT TG33GGGTTGTG STTTTGGAAACATAAAA STTGTATGCTTACTT
CCTGGTTPATTGCAACCCACCTGATTTCACCTT CCFAAACTAA000TGCTTCTCGGCCCTTC
TCAGTTCTACTCTCATTATITCCTCTTCAGATTTGAAGCTCTAACTGAGAAAAATAAGAAC C
CAGCTGACTCAAGGCA CAGGCATAGCAGGCTAATGAGCTSCAAGAACCCCCCAAAATTC |
| 2342 | GGTGCTAATGGGAAGAGAATTCGGTTCCTAAAAGAGGATGCTCTGCCACAAAGAGCGGGCT
CGCGCGCTGGGCTGGGCTCTAG CCGAGGAGAGATCCCCG SGAGAACTCCAGAGCTTCGGG
GGGAGCGCTACTCGGAAGACCGGGGCAACATGCTGTG DGCAGGGGGCATGTGGCAACA
CAAAATA CATTTCGGGGCAACATCATTCCGGAATTTGAAGGGCAAGTAAGTTTGTCTTGT
TCTCTTCTCTCGCCCTCGGCTTT CTGCTTGT TASTGCACCTTGGGCTCCACCGCTTCCAAG
[G,C]
TGGGGAGACCGGCCAACTCCAGGCTCTGTCTCAACTTAAGAGGCTGTGAAACCGAGGCCAGGAG
GTTCCGAATGGCAGCGGGAGTGTCTTCTGTATTTAATTTTGATTTACATTTTAGATTAGG
GTCTCCATTATAGGAGGCAATTTGATCTCTCTCTACCACTGCTCCATTATCTGCTTGTCT
ACTTAATTTCTACTATTCTACTATCTTAAAGGGAACGTGCTAGGATAACATGGGTTTAT
ATTTTGAGGCTGTCTTACTGTAGACTTTCTGAAAGTCGGAAGCAGAGCAGACCATACTAT |
| 2620 | CTTGGCGTCCACCGCTTCCAAAGTGCGGAGACCGGCAACTCCAGGCTCTGTCAACTTAAG
AGGCTGTGAAACCGAGCCAGGAGGTTTGAATGGCAGCGGGAGTGTCTTCTGTATTTAAT
TTTGAATTTACATTTTAGATTACGGTCTCCATTATAGGAGGCAATTTGATCTCTCTTACC
ACTGCTCCATTATCTGCTTGGCTACTTAATTTCTACTATTCTACTATCTTAAAGGGAAC
CTTTATAGATAAGATGCTTTTATATTTTGGCTTCTTTTACTGTAGATTCTTGAAGGT
[G,A]
TAATTAAGTAACTATA TATCTTAATGAGTAATTAATGCTAATACTATTAAT
GATATAGTAATATATTTTATTTTAAATTTTAAATTAATTTATTAATACTAT
CTTTTATATTAATTAATAAATTAATTTTATTAATTTTATTAATTAATTAATTAATTAAT
ATAAATTAATTTTAAATTAATTTTATTAATTTTATTAATTTTATTAATTTTATTAATTT
TTATTTAAATTAATTTTATTAATTTTATTAATTTTATTAATTTTATTAATTTTATTAATTT |
| 2854 | TTTTGAGGCTGTCTTACTGTAGACTTTCTGAAAGTCGGAAGCAGAGCAGACCATACTATT
CGAACCAAGAGAATGTAAATGCTAGTAGCATGTAAATGACTATGCCAACATATTTTACC
TTTGTAAATTTGAAA TACTGTATGATACGATGCTTGTCTGTATTAATTTATAGAA
CTTAATTTTGTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT
TATTTATTTTGTCTGTCTTGTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT |

3146
 TTTTAAATTTTCCTCTAGAAATTTAAAAATTTAAATGTAAATAA TAAATCCCACAAAGA
 CTGAATGCA AGAAATTTAATCTCTCAAGTGGAAATAAATATAS.8AATAAATTTGTTGCT
 ATATAAATATATTAAATTTAAAAATCTCTATTTGTTAAGTTATCTTTGGTCTTTTCTTAA
 AATATATTAATACATTTTATGTCATATAATTTGGTGGTTATTTGAGCACTGCATTTAATG
 ATGTGAGGATCTGCTACCTTCGGTACAAAATAAAATTTGTATATCTCTGCTCACAAATCTAT
 [G,C]
 TGGAAATAGTAAATACAAATCTGTGATGTAAATTAATAAGCTCTTTATATTAAATATCTCT
 GCTATACAGAAAATTTCAAGGATCTCTCAAAATGAAAGTAAAAAGTTGTGTCATATATTT
 TACTTTGTGIGTGTAATAATTTTCTTTTGGGAAATATATATTTATGAAAATTTGAATCTT
 TGCCCTTTTAAATTCCTATTAATATGAAGTACTTTTATTACTAAAATCTAGTTGCTTTT
 TTTTAAACATGATGTTTCTTAAACATGCTTAAGAGATAGGAGAAATGAAAATTAATAA

4531
 CTATTAAAAATTCATATGCAAGAGAGCAAAATTTTAAATTTGAGATATATGCTTTGCA
 TATAGTATTTTGGATGCAACATATATGCTATTCTGATTAATGCTCTGGTAAGCAAT
 TTTTCTCTTGAATAAGGCTTACTGTAATCTCTTCAAAAGTACAGTAAATAATTTCACTGA
 GGTAAAAATGCTACAAATCAGTCTTAGATGCTCTTTCTTAAAGCAATTAAGAGAAATG
 AACAAATGACTGCTGCTGCTATGCTATGCTTTGGTAGGAGAGAAATACAGATAAGTCTTA
 [G,C]
 TTGTTTGAATCTTTAAAAATCTGCAAGAGAGCAAAATTTTATGTTGAAAATCTATATCTAA
 AATCTATTACATTTATCTCTCTTCTGCTTTAGCTTTAGTTGATTAAGCAAGCTCTTTG
 TTTCTTTTCTCTCTCTTAACATTAAGGATGATAAATAAGAACTTTTACCTTGATCTTA
 GTTAAGCTCTGCTATATTAAAAATTAAGGCTTTTATGAGTCAAGATTTTCTCTGAAA
 TAAGAAATGTAGAAAAAATTTATGATACCTGAGGATTTATTAATTTGATTTTATAAATAC

5282
 TATATATGTAAATGAACTCACATATATAAATCTCAGATATGCTCAATTTTAAAGGTGTATA
 TATAGATATATATTTCTGCAATATCTATAAATCTATATCTATATATCTATATATCTATA
 CAAATGATATTTGCTAGGGCTTAAAGGTAAATTAATTTAAAAAATGAAATGTTATAG
 TTAATTTTGTGATATTTTCTATCTATCTATTTCTTTTATTTCTACTAACAGAAATTAAT
 GAGGACAGAGGGGTAGCTCTTTCAGATTTTTCAGAAAATCTTAAAGCTTTTATATAATATGTA
 [G,A]
 TGTGCCATAGCTATATCATATAATGACTCATCATTTGGTATACTAGAGAGAAAAAAGCA
 CAGCAGGAAAAAGGTTTTCAGTCTTACTCTTACTTTCTTATAATTCATTTAGCAATGTACA
 ATTCTTAATTAATACATTTTCTCTTAACATGAAAGTTGAGTGGTTACAAAAACATTACTAAA
 ACAAGCTTTGTATAAGCTTTGTAGTAATCTGGAATGAAAGCAATAGTATACGTATCAACAG
 ATAGAAATTTGTTTAAAGTTCTTCTCTCTTACTTTTCAATCAGTACTGTTGG

5329
 TTTAAGGTGTATATATAGATATATATTTCTGAAATATCTATAAATCTATATCTATATATAT
 CTATATATCTATACAAAATGATATTTGCTAGGGCTTAAAGGTAAATTAATTTTAAAAA
 TTGAATGTTATAGTTAATTTTGTGATATTTTCTATCTATCTATTTCTTTTATTTCTCACT
 AACAGAAATTAATGAGGACAGAGGGTACCTGTTTCAAGATTTTTCAGAAAATCTTTAAGCTTT
 TSATAAATATGTAAGTGTGCTATAGCTATATCATATAATGACTCATCATTTGGTATACIA
 [-,G]
 AGAGAAAAAAGACAGCAGGAAAAAGGTTTTCAGTCTTACTCTTATTTCTTATATTTCAA
 TCTAATCTTCAATTTCTTAATTTCTAATTTTCTTAAATGAAAGTTGAGTGGTTACAA
 AACATTAATTAATAAGCTTTGTATTAATTTCTTAAATGAAAGTTGAGTGGTTACAA
 AATTAATTAATAAGCTTTGTATTAATTTCTTAAATGAAAGTTGAGTGGTTACAA
 AATTAATTAATAAGCTTTGTATTAATTTCTTAAATGAAAGTTGAGTGGTTACAA
 AATTAATTAATAAGCTTTGTATTAATTTCTTAAATGAAAGTTGAGTGGTTACAA

5341
 ATATTTTAAATAATTTTAAATAAATAATTAATAAATAATTAATAAATAATTAATAAATAAT
 TAAATTTATTTGAATTTTCTCTATTTGAACATATTAGTATATTCACAAATACAAATCTTTCTA
 TTTGAAGGATTTTCTTGGTATATGCAATAAAATCTCTCTCTTTTCAGAAAGGACTTTT
 GATTTAGAGGATTTGTTTGGGTATAAAGAAATTAACCTTTAGTAAAAATTTTGATCTGTT
 GACTTCATTTTCAATGTAAGTCACTCTTCAAGGATTTGAATATCTTTAGCGTTAACTAT
 [A,C]
 AATTTATTTATTTTCTTAAATGATATGAAAAATTAATAAATAATTTTAAATGATTTT
 CTCTTATTTATATTTTLAGAATATATTTAGTTTAAATTTCTTTTAAACAGTATGA

FIGURE 3, page 132 of 173

CTGAGGATTATTTTGGAAAAGCTTGTTCCTAAAGTGGGAAAGGTTTTATAAGCAATT
TAAACTCTGTATCTATGCAATGAGTTACATTGATGCACTTCATGCTGAACCTGCATGATC
[G,A]

TCATTTTGAAAACACCACTTCCACATATGCTTCGTATGTCATTGTGCTAGGCAAAATTAA
ATTGCTTTTATCAAAATCAATTTTAAAAAATTATTTATTTGCAATAGAAATATTT
GACAGCTTTCCCTTGAGGATTTATTTTACAGTTTAAAGTCATTATGCAATAATCATCC
TTGGCAGCTGTCAAGTATTGCTTGGGTCATAAAGCTGTAAAGCTTTTGCAATAAAACCTC
TAATTATACAAAACATATAATATGCTATGACTTATAAAGGATGGCATGTATTTTAAAT

7424

CAGCTCTTCCCTTGAGGATTCATTTTACAGTTTAAAGTCATTATTTGCATAAAATCATTCCT
GGCAGCTCTGAAATATTGCTTGGGTGATAAAGCTGTAATCTTTTGACATAAAACTGTA
ATTAACAAAACTATAATATCTATGATTTATATAAGGATGGGATGTAATTTAAATAT
ATAAGTACATTCTATTTAAAAACACTTTTCAAGCAAAAGATTAATAAATAGCAAGGATTC
AGTTATTAACCTAGTTCATATTTTAGATGATGCAAGTGCAAGGAAACAAGAAAAA
[T,-]

ATTTGAGTTAGCCGCCACAACTAAGTTTATCCCTCATCCGCTTTGAGAGTATATCAAGGAA
GAGAGCTAGCTAGTTTAAAGTGGTAAACCCCTTCAGGCAATTTTACAAATGTCAGCTTTGAC
CTTAATTTATCAAGCAATTTTAAACATTTGAAAAAACAAGTAAATTTCTCCAGCAAAAC
TAAAGCTCTTTTACATCAATAGGAAAGGATGACTTAAATATATTTATTTTGGGTGAGAG
CGCTTCTGTATTTGGCATTTATGCTTTTCATACAAGCTATGCTAGCAATTTTACTATCAGA

7951

TTTTGAGGTGAGAGCGTTCTGTATTTTCCCATTTATGCTTTCATACACACTATGCTGAGCA
ATTTTACTAACAGATCAGAAATGATGGGTGCTATTTTCTATCTTCATGCTGCTTTAA
AGAACTGAAGAATGATAAGGGACTGAGGGAGCTCTTGGCTAATCCAGTCAGATATCAT
GAAAGCTTTGAGAGGTAGATTTTGATTAAAGTAAAGCTCAGAAAGAGGTCTTGGTTTGCAGG
ATTGAATTTACTATGCTTGAAATTTATGTGGAAGAGCTTCTAGAAACAGCTCTGTGTTTT
[G,T]

TGAATCAAGGTGAAGATGTATATTGAGTGCCTCTCTCTCTCATGTAATGTACAGGC
ACTGTAAGAACAGTAGTAAGAGATACAAAGGAAATGCAACCTGATCTCTGCTTCAGGA
CATTGTATTACAGAGTGAATAATTTTATCTCTCTTAAATCTCAGCTGTTTTAT
AAAATTTATTTTAAATGGAAGAGGATTTTGGATATGGGCTTGTAAATGTCATAGAGAA
CCTGCAAAATTTATTAATTAATGCTATTTTCTCTATTTCCCAAAATTTAAATAAAGCT

8053

TCTTCAATGCTGCTTTTAAAGAACTGAAGAATGATAAGGGACTGAGGGAAGTCTTCTCTTA
ATCCAGTCAGATATCAGTAGAAAGTTTTCAGAGGTAGATTTTGATTAACTAAAGTCAGAG
AGGCTCTGGTTTGATAGCATTTGAATTTACTATGCTGAAATTTATGTGGAAGAGCTTCT
AGAAACAGCTGCTGTTTTTTGTAATCAAGGTGAAAGATGTATATTGAGTGCCTCTCTCTCT
CTCATGTAATGTACCAAGCACTGTAAGAACAGTAGGAAGAGATACAAAGGAAGATGCAAC
[C,A]

TSATCTCTGCTTCCAGTACATTTGATTACAGAGTGAATAATTTCAITTCATCTCTCTTA
AATCTCAGCTGTITTTTATAAAATTTATTTTAAATGGAAGAGCTATTTGGAGTATGGGCT
TGTTAATTTGCAIAGAGAGCTGCAAAATTTATTAATTAATTTGCTATTTTCTCTCTATTCGC
CAATTTAAATTAAGATGCTTATGTGTATCTTCTTTTCCAGTATGTCATGTATACATAA
TAATCTATTAAAGAAATTAATTAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT

8574

AAATGAAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
AAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
TAAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
TAAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
CTGTAAGAACACTAGGAAGAGATACAAAGGAGATGCAAGCTGATCTCTGCTTTCCAGGAC
[A,G]

TTTGTATTACAGAGTGAATAATTTTCAITTCATCTCTCTCTTAAATCTCAGCTGTTTTTATAA
AATTTATTTTAAATGCAAGAGATTTTTCAGTATGGGCTGTTAATTTGCTAGAGAACCT
TGAAAAATTTATTAATTTGCTATTTTCTCTATTTCTTAAATTTTAAATTTAAAGATGCT
TATCTATTTTCTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT
TAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT

AAATGAAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
AAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
TAAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
TAAATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTTAAAGGATTTT
CTGTAAGAACACTAGGAAGAGATACAAAGGAGATGCAAGCTGATCTCTGCTTTCCAGGAC
[A,G]

14695 TATAAGCATGTTTACAAACCATCCCAAGGCTGGCTGATCTCCCTCACTTAAATACACATG
ACAAAAAATTTATAAAAACCTGCAATTATGTTGATGATTTTCTGTATCTTTCTGTAC
ACATTTGAAAGAGGCTTCATACCTACCTGGGTCTGACAGACATTTTAATTCTTTTTCAA
AGCTTGGCTCATGGCTTGATTTGAAGGCTGTATGATATCAGAAAGACCTTATGAT
GATATGCTATACAGGATTTCACTCACTTCAAAGGCACTTATATCTTCACTCTGTCTCTC
[-, G, T]
GTCAAAGTGAATTTAACTCACTGTTGAAAATTTAGAAAAATACAGAGAGAAAAATAGAAAA
AAACCAATCTTAAATCTAGAGATATGCACTTTATCATCATCTGCTGTGATGCACTT
ATAATTTTTTACAAAAATACACACATCTGAGCAATCATGCTTTTTTAAAGAGAGAG
GGAGCACTATGATATCAAGCTGTGAGCTTTCTTTCTCACTAGAAATTTCTGTGTA
ACATGCACTTTTTTTTAACTGATTAATAAAAAATTTTACAGAGCAATAATTTGTTAATA

14725 TCCCTGGGATCTCCTCAGTTAAATACA CATGA CAAAAATAC CTATAAAAACCTTGCAATTAT S
CTGATGTAATTTTCTCGCTATCTTTCTTCA CA CATTTGGAA SCAGGCTTCATACTTACACAGG S
TCCCACAGGCACATTTAATCTCTTTTTC AAAACCTTGG GTTCATCGGTTGAGATTGTAAAGG C
CTGTAT SATATCAGAAGACACTTCAT TACTCA CATGCTGATACAGGATTTCAACCACTTCA
ACAAGGACTTTATATCTCTACTCTCTGTCTCTCTTAAA GTGATTTAACTCTCACTGTTGAAA
[C, A]
ATTAGAAAAATACAGAGAGAAATAGNAAAAAAAACATAATCTTAATACTAACAGATATCC
ACTGTTACCAATGATGGCTCTGAGTGCAGCTTATAATTTCTTCTACACAAATACACACATGTG
AGCATTTCAAGCATGTTTTTAAACAAGATAGGGGAGCA CTATATGTATCAACAGCTTTGTAGC
TTGTTTTCTCCTCACTGCAGAAATCTCTGTGAGCAATCTGCATATTTCTTTAATGATTACATAAA
ATTTTTTACAGAGACCATAATTTGTTTTAATATCCACAGAAATATTACCAACAATTTATTACTT

[illegible][illegible]

ATAATTTAAATTACCTTTSTTTTCACAAATTCCTTGACAGAGTAGCTTCTTAATAAAT
AGTTTCTTTAAATAATTAATGAATTGAAACATTAGACACATTCTCTTAACCAAGTTTCC
(5,1)

TTTGATCTATTAGTTAATTCTTTGATAAAGTGAAATAGTTCTTACCTGTTTGAAAGGG
ATGATAAGGAGGGAATATAGTCTATTCTTCATATCTGGAACATTCGAGTCTATCTGCT
AGGTTCAAAATCTGGAAATATACACATTCTGTGATATCTTACCTTCTGCTGCTGCTGCT
TTCTTCATCTAGTGGAAATGGAATATCTATTATATAGAACCTATCTTATCTAGCTTTCTG
AGGAGCTGCTTACATCTTGAAAACTACTTAAAAACAGCTCTAGCTACCTCAGTAAATCTAA

19740

CTATGAGTACACACAACTGACTAAAAGTAAAAAGATTGAATCTGTTGAATGCTAAAG
TCTCTTAAAGATATCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
GCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
AGTATATAGGCTTATCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

CTAGGATTAAGTAACTAACTAACTAACTAACTAACTAACTAACTAACTAACTAACTAACT
ATTGAGATTTGATTAAGTAACTAACTAACTAACTAACTAACTAACTAACTAACTAACTAACT
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

20813

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

22158

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

23127

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG
CTCTCTGATATCTGTAAGGATTTCTTACTCTGTAAGGATTTATCTTGAATCTGTTAAAGCTG

FIGURE 3. page 137 of 173

27467) CAAATAATTGGAGAGAAATGAATGATGAAAGTAAAGTTCCTAACCAAAAGATTTTAAAGGTTTACCAAGATTTTAAATGAGAGCTACCAATACCCCTGATGGCAGTCTGGTATTTTAAAGCTCTCTTAATAAAGTTTCTTCTCTCTTCTTTCTGAGTGAACAATTCTGTGTACACAAATAAGAGGAGGTGATCCTGATGGAGGAATTTATCTTAATCTGGCAGGTGGAGAGGTAACATTTGGCATTTCTTTTATCTATGATTTCTCTACCTTTCTTTGAACGGAAGTTAAATGGGTTGAC(C,T)

28916 TTAGTGTGTGTGTGTGACATGTGGCTCAACACACACACAGGTGTGTCTGTACACTTACATAATTTTA
AAGCAATTTTTTCTAAAGCAATCTTTACACTATAAATTTATTCTATTTCCTTTGAAAAAGATAAA
GTACATGAGGCGGCAATATGGAATTCCTGTCTATGAGACCTATGTTTTGAAGAGGGGCCAATTT
ATCTAATTTTTTCTATCTTTTATATTTCAAGCCATCCACCTTTGTTTCAGAAAGAGTCTACGC
CTGGCGCTTAATATATGATGCTAGTTTCTGAGATTTTCACTCATATTTTCTCTAGTTCAGG
[T, G]
TTCTTCTAATCATGAAATTTCTTTTGGCAATTTTAGCTCTTTAAAAATAGCCAAATTCCTCC
AAAGGATAATTTGTCTATGCAAGATGAACCTCAATCTCTCGCTGATTTTGAAATGTGTTTT
GTAATAGTAAATTTCTCTCTTTCTATCTAGTTTATAAACTCATTTGAGAATAGCCCTATGT
TCTCTATTTTTCAAAATGGACAGATTTATGTGAGCAAAAACAAAATAACTAGTTTCTGAGAG
CCATAGATACAAACCTCTGGCTTTAATATTTTGTGAGTCAATGTGATGTTGGGTAAAAATCTCA

29522 AAAATATAGGGACCCCTAAACACTTTGTATGCAAAAATTTGCGAGAAAGGAGGAAACCTAGATGGCTCATGGAAGAACCTTTGGTCAACAACGATACCTAATGAGTGGTTTGGTGTCTTAAATATACCTTTCTCTGGCATTTAAACCCCTTTATAATGTGTGTTTAGGCTTTCTATTGTGTTTATAATATTTTTCAAAATACAATCCCTTTGCTGAGTCACTCTTTATTGCACTTTTCTGATTACTCCAAATTACTTTGCTAGACAGACTTTTTCAAAATTTATGTTTTAAATAAAATCTAATGAAGAACTAAATGGAAAAAGTATGCCA[C,T]GGCTTGGGGTGGCTATCTCACTTCATAGTATTTCAATTCATGACTCTAATGTTCTAGAGGGCAAAGGGGACATAAGSACGAGCATCTATAATGTATTTACTTTGTAGAAAAAGCGATTTCATCATAAAGAGTTGCTGGCAACCAATCTCAAGGGCTTATTATGTCAAAATGGAATTCATTTAAATTTGTATTATTTAAAAATAGAAAAATTTCTGAAATAAAAAGGGAATAATTTTGTGCTAAGCTCTCTATTTTTTGAAGGGGAGGGGGCTTTTACCATAAATTAGTCTTCTGAAACAATTATAATGTGATATG

31683 AGCTGAAGAAATGTTAAACAGACCTATGACTTAAACTGATATACAATTTTAAATGTTTTTATT
CAGATTTCCTCAATAAAAGTGTGGGGACAGCTTGTGTGGGTAAATTTTGTGCTTCAAACTTTC
TGTCTCTACAAATACAGGGTTTAATAAAGTCTTAATTTCTATATACACAGTATATATTTAAT
GTTATGTTGTCAATGAAAATAAATTATCTTAAGTCAAAACCACTCTCAGTTGAAGAAATCTT
GAAATGACTTATCTTAAATTTGTGACTTCAATTTCTCTGTGAAAATTCATTTTAAATA
[3,4]
CTTAAGAAAGCTTATCAGTGGATACTGCTTAATTAAGAAATGGTATGGAAGAGCTCTTCAC
ATTAAGAAATCTTAATTTTAAGAAATCTTAAGAAATCTTAAGAAATCTTAAGAAATCTTA
TATTTATGAAATCAAAATTCAGGAGAGTGGAGCTTTTGTGAAATGAAATCTTAAG
CTTCTCTGAAATCTTAATTTTAAGAAATCTTAAGAAATCTTAAGAAATCTTAAGAAATCTT
TTATGAAAAAATATAAATTAGTATTTCTTTATTTATATGTATATATATCTTAAATATATATA

TAAACTAAATTGGAAATAATAGAAATATTTTGAATAAGAAAGAAATTTTATTGG
GGCATGTCAGCTTTACTGGCAGATTGASAGTTCCAGTTCGACAGGCTTAAGGAATTA

55687 TAAATGTGATTTCATATTAAGTCAAAAAAGATTGATGTTCTCTTGGTTTATCCTGTTTGTATGAC
AAATTAATATTTTCTTTTAAAAATGAAATATATGATAGTTAAAGAAATTTTAAAGTTGAT
TCCTTAAAGCTAAATTTGAAATAGTACGACCTATTTTGGAAAGAAAAGAGCATCTTTAT
TGAGCTCATGTAGCTTTTCAATTTGAGATTGAGAGTTCCAGTTTCAGAGGCTCTAAGGAA
TTATGACTCCCTTCAAAAAGGCTCTATGACTGCTCTCTTTCTCTCATCTTCATACCTTC
[A, G]

TGCTCTCTCTCATAATTTCTGTGGAGTTAAACCAGGAGTTAAAAAGCATTACAACCCCTCT
GATGTATAGAAATTAACCTCATCATAAATTAATTTTCTAAAAATATATTGTGGCTAGTAT
GGGATAATTTTGTCAAAATATTTTACCATTAATATTTGGTAAATTTTCAAAAAT
ATAGTATTTCAAAAGTATGTGCTACCTTTTAAGATCTTTTAAAGAAAGGAGGAAATCAAA
CTCATGTAAATATCTTACTTCAATTTGATCTTACCTCAATTTCTGTAAGGAGAAATTAATCTTG

57549 AGGATGTAAATTTTCTTTTCAATTTTCCAGGCTTTGCAATATTTTCAAGTTTATCAAAAT
GTTGAAGCAAAATGATGTTTCTGCAAAATGCACTATTTGAGGCAATTTCAAGCAAGGAG
AGTCACTAAATGATGTTGATGTTGATGTTGATGTTGATGTTGATGTTGATGTTGATGTT
GTGGAAAGGAGCATGAAAAATGAAGGCAACTATTTATCATAGTTTGAATTTGAGAAAGGAA
GTCTAAAGAAATCAAGGAGATCTAGCTACAGATGAGGCTCTGCAAGCAAAATTTCTAGAA
[C, T]

GTCTGTAGGAAACTGTTGCTTCTGATATGTTATTAAGCTTTGTTGCTTCAAGTGAAGGAG
TTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
TAGGAAGGTTAGGAGGCAAGGAGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
ATGAGCTCTAGAGAGTAAATGTTACTCAACTATCTCACTTTCACTCTCTCAATCTCACT
ATGCTGCTCTTATTTGTTCAACTTATAATAATTTGAAGGGGAGGAGATTTGAGAAAGATTA

57606 AATGTTGAAGCAAAATGGATGTTTCTGCAAAATGCACTATTTCAAGGCAAGTTCAAGCA
GGGAGTCACTAAATGAGTGTCTATGGGATAAGGAAATTTATTTATCAAAATTAATCTTACA
ACTCTGGAAGGGGACATGAAAAATGAAGGCAACTATTTATATACTTTGATGTTGATGTTG
GCAGTCTAAGAAAGCAAGCAGATCCAGCTACAGATGGGTTCTGTTCAAGGAAAGCTTTGTT
AGAGCTCTGTAGGAAACTGTTGCTTCTGATATGTTATTAATCTTTGTTGTTGTTGTTGTT
[A, G]

GACTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
AGTTAGGAGAGGCTAGGAGGCAAGGAGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
GTGATGAGCTTCAAGAGACTAAATGCTACTCAACTACTCACTTTCACTCTCACTCTCACT
CATGCTGCTGCTTATTTGTTCAACTTATAATAATTTGAAGGGGAGGAGATTTGAGAAAGTA
TGATTTCAAGCTTAAAGCAGATATACAGTGTCTCATCTCTACAGGCTATTTGATGCTCTTCT

58429 GTCTCTGGCTTTGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CTTCTTATTTGTTCTTGAAGAAATGTCAGACATGCTCTGCTGCTGCTGCTGCTGCTGCTGCT
TTCTCTGGAATGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TTTCTTGAAGATGTTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CTTCTTGAAGATGTTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
[A, G]

CTAATAATATTAAT
CTAATAATATTAAT
TAAAGAAATTAAT
TAAAGAAATTAAT
CTAATTTTAAATGCTCATATTTTCAAAATTAATAACACTAGAAAAAGCTAAATTTCCAGTCTAG

58431 CTCTGGTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TCTTATTTGTTCTTGAAGAAATGTCAGACATGCTCTGCTGCTGCTGCTGCTGCTGCTGCT
GCTGGAATGCTTCTTGAAGAAATGTCAGACATGCTCTGCTGCTGCTGCTGCTGCTGCTGCT
TCTTAAAGATTAAT
TAAAGAAATTAAT

70462

70720

72360

72401

72570

TCAATTTGCTTAGGGATCTACTTGAAGATGAGCTTTTCTCTGACAAAGTTTACTCCTCA
 GTGCTGGCTGAGCTATTCTGCCAGACTTCAATGATACATBAGCTATTAATCTCTAG
 GGTAGGTACAACTTCCAGGACTGTGTCTAGGCAAGCTTGCAAGTCTCTACCATTAACAG
 AGGCAATCTCAATTTACTCCTCTGACCTTGGCTTTTACCTTTCAATTCAGAAGTCCCAA
 GGTCTCTAGCTTATTCTTTAGCTAGAATAAGTTAAATATTCCCTTCACAGATCTACATP

82168 ACCTTTAAATGTTCTCTCTGTGCATAACAAATCATAGACTTCAAACTTTAAGTAAAAGG
 AGTAAAGTIGTTATTGCTTATTTCTTTTAAATTTTATTGAAACTTCTGTAAATGAGTCT
 ACAATTTAAGTAGACAATSCAAACCTATAAGAGAATTCATTAFAAAAGCTTTCTGTATAG
 GAAATTAATTTATACAGAATATAATGCTTTATCAGATTTGGCTGGATTAATCTCTGTCT
 AAAAAAATAAAGTATGCTTATACAAATATGTGTATATATACATATATATATAGATA
 [7,1]

GTAAATGTAGATACTTATACATATATATATATATATGTAGCCACATATATACATATATAT
 AAGTTATATATATACAT
 TGTCTGTAT
 TTTAAAGGGAGAAATTTCTTCAACATTTTGTGACTGGCTGTATACAAAAATAAATGGTG
 TCTAGTTTGTACTAAAGAAATATAAGCTTCAATAAGGATATAGCTGGCTGTATATATCTGG

82419 ATACTTATACACAT
 ATACCTATAGTTAT
 CATATAAACAAT
 GAAATTTCTTCAACATTTTCTGATTTCTTATACAAAAATAAATGGTGCTCTAGTTTG
 ACTAAAGAAATATAAGCTTCAATAAGGATATAGCTGGCTGTATATATATATATATATATAT
 [A,4]

TGTCTATATATCTGGCCAGGATCTCAGGGAACCTCTCATCCCCCTCCAGAGAACTTTCTGTGAC
 TTTCTCTCTCACTTCAAGGTCTAGGCTCTCATCTTTTCTCTAGAACACACTAATTAACACAC
 TCCAATTTTCTTCAACAT
 CCACTGCAAAACAACAGAGAGAGAAATAAGTTGTTTCTACTTTCTCTCCCGGTAAACAGGT
 GACATATCTGTATATATAAATCTCTCTTAAAGAGTTGATATAAAGCTACTATTAATCATAG

83717 TCATGCTTAACATTTAAATCTCTAAACACTGATATTCCCATTTTAAATTTTAACTGGGCACC
 AGAAGCAAAATGGTAAAAACAGAGATGATTACCTCAGTACTTTATTCACATTTTAAACA
 GCTTTACAGATTCAAATAAAAAATAAATCTAAAAATGAAAAATGACAACTAAAATTA
 AACATAGAAAAATATTTTAAACCAAGAGATTCTTTCTCTTGTAACTCTCCAAATGGT
 GGAAGTAAATTTTACAGCTGGAATGTACACAGGACTTAATTTTACCACGGTTATATTTATA
 [G,7]

TTTGATGACTAAGTTAGGCTTTAAAAAATTGATATTGATTCAGGCCCTATTAAGTTAAAT
 TTTGCTATATTTAGCTAAAGGATTCATTGATCTTTGTTTGTGAATTTGTGTCATCTAAA
 AGCAATCTCACTTTAGAAACACCTCTGTATAGCTAAATTTGTCTTTTAAAGGGAATCT
 TCTAAATCTTTTAAATTTAGTTTAAATTAGCAATTTCAAGGGCCAGGCAAGTGGCTCACAC
 TATAATCTAGCACTTTTGGGAGGCCAACGCCAAGAGGACGACTTGAGGCCAGGAGCTTTAG

84656 GGTATAGCAAGCATTCGATTAGTAGAGTTTATATTCAAACTATGACCTTAACTAGAATT
 GAAAGCTTATATATATATCAAGCTCTCTCTGCTTTTATAAGTAAATTTGACCTCTCT
 CTCTCTCTATATATTTAAATATTTGATTTAATTTAAATTAAGGATTTATATATATATAT
 TATCTCTCTATATTTAT
 TAT
 [A,4]

GTATATATTTAAATTTGATGATTTAAATTAATAATATATTTGCTTTCTCTATTTCT
 CTTAACTTATGTTTGTATAATACTAAATCTTAATATATATATATATATATATATATATAT
 CAGATATAAATAAGACTATCACTCTGGTTGAGTATATACCACTTCTAGATTTCTCTCTCA
 TTTTAAATTTAGATGTACCAAGTATATGCAATGATTTTTTTTCAAAATATATATGTTGACT
 ACAGGCTCATAGTTAGTATTTCTATGTATATATATATATATATATATATATATATATATAT

84817 TAATTTAGATTTAAGTATATATCAATGATTTTCTTTTCAAAATATATCTTACTACA
 TTTTAAAGTTAATTTAT

TTTTAAAGTTAATTTAT
 TTTTAAAGTTAATTTAT

FIGURE 3, page 150 of 173

54505

86184

93033

93692

126082

• • • • •

ATTGATAACTTGGGCGAATTGAAGGAAATAGAATAAATAAGTTTGGTTTCTACCGTGAAG
GGATTTTATAAGTAATAGCTGTATGTTATTTGGCTTCGATAGATGTTAATGAATATATTTG
GTTGATTTTGTGTGAAAAAATACCTAAAGGACACAGAAATATGATCAGTTTATTAATTAATGT
CGACTTGTGTATGTCAGATGGAATATGTTATGACTATGCAATGTCAATGAACTTTATGTT
CAAGTTTTTGTGTTTGTGAATTAATAATAGCTATGCTTTTGAATCACTAGAGCTGTGCAACAAAA

[illegible][illegible]

GTTTCCTCAGAGATATAATTAATATGCTTAAAAAGCCTATTTTAAAGTAATAAATAATTC
 CAGTCAGTAATTAAGCAATAGTTTATTGGAGTGTATTCTATAAGCATGATCTTACAAAT
 TGGTACGATGTAGAAATCTAGTAAATAATTTTTTAAAAATTTCTATTTTTGATGGTAC
 CAGAGTGTAAAGAAAGACAAATCACTCTCTGGGTTTTGGAGAAATANTTCAGCAATAAT

213839 CATATATTTAACTATAGCATTSATAAGTTAATGTTCAGCTGGGTGAGAGATGCTATTTTC
 AATACTCTCAACCTCTTTGTTATTCTAGTTAATAACAGACAGATGGGAATTCAGTGGGC
 AATGACAGATTTCTGTAATAAGCTCTCTATCTCTGAATCTGGAAGCTCTAAATAATTTAG
 CATGCAGTCTACTCTTGATGTTCTTAATGCTGGAGAGCAATTAATTCCTCCAGTGTCTGAAT
 TCTCTCTAGTAAATGCTGAGAGGATACACTTCACTTTCTCTCTCAAGATGAATCCACATGCT
 [T,A]
 TAAAAAGCTATCTTAAGACTACAAGGGAATTCAGTCTCAATTAATAAATAATAGTTTATTTC
 GAGTGCAATTTATAAGCATGATCTTAATAATTCCTCAAGTGTAGAAATTCAGTGAACACA
 TTTTTTAAAAATTTCTATCTTTGATTTGTAACACATCTGTAAGAAACAACTCACTCTCTG
 TGGTTTTGTAAGAAATAATTCAGCAGAAATAATTCAGAAATTCCTATCAATTTAGTTACCTCTTA
 TTTCTTATAATGATAATCTGTCCTTTTAACTAATTAATCTTTAATGTATACACCTTGTGGTT

214452 TTATTAAATTTTCATGCTTTAAAAACCCTGTGTTAATTAAGTATTTAATAATTCCTCCATA
 ATGAATATAGTTGATTTCTCTATGCTAGTGAATGCACTATTCCTAATTCCTAATGCTGCT
 AGCTTCAATTCGGATAAATTTGGCTCAGATTTTATTAATGAATTTCTTTTCTTACAGCTCT
 CAAATCTCTATCAAACTTTTTTAAAAATTAACATAATCAACACATTCCTATCTATTTT
 TCCAGTAAATAAATTTTGTATCTTCAATCAAGTAAATAATTCAGTGTATCTTCAATGAG
 [T,C]
 TCCAGAAATTCAGTTTCTCTCATGTTAAATTTCTCTTTCTTCTAATAAGTAGCAGTATCT
 TCCATTTTCAAAAAATTTGTTTTATGATTTATTCTATCTATTGGATTTATTTTATGAGATTT
 TCAACATGACTTTAAATGGTTATAAGATGTTCTGTTTACATAAGGCTTCACTCATCAAA
 TATGCTAGCTTTTCTAGTGGTATTCTCTGCTCAAAATATTTATTTGCTTAAATTAACAAATCG
 CTGTTTTGCTGACATTTTTCTCAGTTGTTTTCTCTACAGTTAGTGTTTTTGATTTGAGAG

216135 TACTAAAAATACCAAAATTAGCCAGGTCTGTCTGCTGATGCTCTGAATCCAGCTACTCAG
 GAGGCTGAGGCTAGGAGAAATTCCTTGAACTCTGAGGCTGGAGGCTGGAGGTGAGCTAGATC
 ATAGCATTTGCTCTCTGCTTGGGCAACAGAGGCGAACTCCATCTCAAAAAAAAAAAAAA
 AAAAAAAAAAACAAGAGTGCACGTTTAAACCAACATGCTCTTGAAGCCAGCTGAACTCTC
 CTTTTGCTGGCTAATATGAATCATTTGCTCAGCTGCTAATGGAATTAGAGGTTAGAGGTTA
 [G,A]
 GAGCAGCTTTATATATTGGTAAAGSAGATAACTGGGCTATCATGTAAGGAGTTACTAAA
 AATGATTTAAAGTTTTCTCATTCTGGAAAGATGTATATGATAGCAGCCCATAAAATCGCAGA
 TGATATAGCTAAATGAGTAAGGAGCTGTCTATTAATTTTTGGAAACIAAATTTGAATAG
 AACTTTGGAAATTTACATAGGTGAGAGTGTATAATAAAGAAGGCGATIGTCTGGTGGTT
 AATGACAGGAGAGCTAGTTTTACACCATGCAATTTCTAGGCACATTTGTTTSCATTTTTCA

218389 CTATTATTATTTCTAGTCACATCCCTAATAGTTTITATTCTTCGGAGATTGTGAATCA
 GGACTTTTTATTCTAAGGAGATTACTACCAGGTTTACGACAGGTGCAACTGGCCTCT
 TATTGCTAGATATATAATATAAATTAATAAATTTATCTATTCATTTAACTCTAGGT
 ATTAAATTAATAATTTTAAATAAATAAATTTAATAAATTTAATAAATTTAATAAATTTAATA
 GATCTCTCAATAAAGCAATAATTTAAACCAAGGAGTACTTCAAGTATCTTTTGGCAT
 [T,A]
 TGGTACTTAACTATAAATATTCTGCTTAAGAGGAACTAATTAAATTAATTTAAATAA
 CTATCTTAAATTAATAAATTTAATAAATTTAATAAATTTAATAAATTTAATAAATTTAATAA
 CAAATAGTTATGTTAGAGTAAATAAATTCATTTCTGTTCTGTACATCTATTTGTATCAG
 GTGCTAATATCTTTTCTTTTCTCTCACTGCTGCAAAAGCGAGGCTCTATATCATC
 ATATGAAGGAGATGGTATGAGTCTAGTTTTGATACTCTCTCCCATGATGTTTTATGTGAAT

218747 GATTAATGCTGAGTTTAAATAATTTAGTGTATTTCTATTAATTTAAATAAAAA
 AATAAATAAATAGTTATCTGAGTAAATAAAGCAATTTCTTTTAAATAAATAATTTGAG
 ATTAATGCTGAGTTTAAATAATTTAGTGTATTTCTATTAATTTAAATAAAAA

The sequence data were obtained from the GenBank database. The sequence was aligned with the reference sequence using the ClustalW program. The alignment was performed using the default parameters. The sequence was then translated into amino acids using the standard genetic code. The amino acid sequence was then compared with the reference sequence using the ClustalW program. The alignment was performed using the default parameters. The sequence was then translated into amino acids using the standard genetic code. The amino acid sequence was then compared with the reference sequence using the ClustalW program.

219062 TAACTATGCGATAAGAAATGGCACTTAATTCTTTAGGAGTTTAAATTTAAGCCTTTCTTCAGT
TTTAAAAAGTAAGTASSAGAATGAATAGACAGAAATTTTCTATTTTTCAGAAATAGAA
ACGAAACTATATATCAAGAGAGAAATTAAGCTGAATATTCTTTAAAAAGACAAATAGAA
GTGGCAAAAAGAACTATCTTTAATAGAAATTTTATCTTTTGTATTTTGGTTAATTCT
CTCATAAAAAGAAATATTTGTACTACACATGGAACTAATGATGATACAGAGAATCATGCAA
[A,C]

220691 CTTCTTAAAGAGAGCATGATCTAAATATATTGCTTTCA3GGGTCAAAAAAGGCAATCTAATG
AAGTTATGACATGCTTCCAAATGCCCAAGAAATAAAAGGCTAAAGAAACAGAAAAATACAGT
TTGGGAATCAACCGACATATAGGTTGATTTTGCAAGGPTCTACAAATTTTGGGGCCAAATATGA
CATTTTAAATCTCTAAAAGGGAAGCTTTGAGATCAATGGGTTCAACAGCTTAACTATAGAAT
TTTATATATATATATATATGAAAAATTTCTCTCTATATTAAGAGATTTTCTCTCTT
(G,A)

220741 CAATCTAATGAAGTTATGACATGCTCCAA TGCCCAAGAAATAAAG TCTAAAAGAAACAGA
AAATACACCTGTTCGAATCAGCAGCATATAGGTGATTTTGCATGGT DCTTACAATTTCTCG
GCCAAGATGACATTTGAATCTCTAAAAGGGACCTTTGAGATCATGCGGTTCAA CACCTTA
ACTATAGAAATTTTATATACATACATATATATGAAAAATTTCTCTCTATATTAAAGAGAT
TTTCTCTCTCTATATATATTTTAACTATATAAAATAAAAGGATACATAACAAAAATATCT
[A,C]
TCTCTCTCTATATATATATCTATATTTCTCTACCCATTTGGTAGATTTTTTATTATCT
TTTTTTATAGATTTTTTATAGAGAGAATATATATACACATATTTCTCTCTCTCAAGCATAT
ATATGTATATACTGTGTATAGTGGGTCTGAGAACAGCAGGTCTCTTATCCGAGATATG
TTGGACTTAGCTCTTCAATTATAATTTAGCTGCTTCTCTAGAACAGTTGTAAAACTCAA
AAGCTTAAAGGTCAGTAAGTATTATCTTAAGCTAAATACTTATG CAAATACCTTTATGTC

[illegible][illegible][illegible]

CTT TTTTA TTTTGGGGGACATAT TAAASTGAATTTGTA TATATTT TCTTAAGGTG TTTT
ACT TTTTCTTAGT TAAATAACCAT TCAATTTCCACGGT TATTTT TCGAATAATCT TTAGCAAG
CTT TGCACA TACAATTGATGAAAA TTAATTTCAAT TAAATGAA TAAATGAAT TGAATATGATATGCA TAT
TGAATTTGAACCTTTCACTGGAAC TGTCCAA TATAATTAATTTTCTTCAGG TCACTCAAC TTT
TTTACTTCACTCTCTTGTCTTGAATCTTGAAGGAGTAATTTTCGCAAGCCATAAACTTTAA

AAGTAATGAAAAATAAGACATAAAAAAGTTTAAACCAATATGSCAGTTTATAAAAAATT
 AAGGTTTCGAATGATAAAGTTTTATTTCAATTTTGCCAAAGTAAAAATTGATATAGTTTT
 ATTTTCAATTCAGTACITGGGTTTTTTTAAACTAGGTATTTTGTCTATTCTTTTAAAT
 TTAAGTTCTATGTAAGCAGGTATGTGTGCTCTTTAAGATGTCAGATTT
 TCTAATAATTTAGGTTTCAATTAATGATATTTTATGATGCAAGTTTAAAAATTGATGTAAG

GCAGAAAGATTATTCCCTCTATTTTAGAAATTTTGATTTCATATGTCATTATTACAGGTTTAT
TTAGATCCAAATTCACGGAAATTAACAAAATATTTTGATTTTTTTTGTACATTAGTAAACAGT
TTAATCCCTTAGAAAGCTTACACTAATATCCGGTTGCCAGACAATTTTCTCCAAACAATT
TCTGTGTTGAGATAAGCAACCATGGTCTCCAGAACTCCTAAGTCATGTTCAIGCTTTATATA
TATGACTGTTGTTTGTGTGTTTGTGTGTGCACCAATTACTCTCATGTTTGTACCGCAATC

AGAATTGCTTTGTCACAGGTATGTACAAGTTAATCTTTAAGTTATTGCCAATTATTTCTTC
AAAATAGTTTGTGTTGAETTAGAAGTCCCACTAGAAAGTGGGTAAGAGGCTCAGTTTCTTTGT
AGCTTTGTTATTTGTTTTTTCCTTTTATATTAAATAAAAAAAAAAAGCTTCTCTTTTGGGA
AATATATTAAAGTTTATAATTATTTTCTTTTATAGTAATTTAAAATCTGCTCTCTT

GATTACGTTTGGCTTTTACGTGATATTTTTATAGATATATTTCTCCAATCCCATTT
TTTGCTTAAATGAATAATTATATTTTATAATATGATGATTCTTCGATTAT
TAATTTAATAGATAGTTTTTTCTTTGTTTCTTTGTTTATCAATAATTTTGA

FIGURE 3, page 156 of 173

236481 A A A T T A A A A A C G A T A A A A T A G A G T T G A A G T A A A C A A A C T G A G A A A G A G A A A A C C T T C A
G A T T A G C T C T T C T G T T T C T G T T A A T C A A T A G T G T C T A A G G A C A C T T T G C A T C A A G A T A G A
A A A T A A A A A A G G A G G G C G A G A T T T A A G G G A A A A C A A A A G C T C A A T T G G G G T A T A T T
G C C T A T A A A G T A T A T G T G A A T G G G A A A T C T A T A T G C A A A T C G T A G C T T A A G A A T G A A A
T C A G A G C T T A A G A A A T A A T C T G G A A A C C T T A A C A C C T A G G A G G T A A T T G A A A A C C A G A
[5, 6]
A T T G G T G G A A T A C C T A A G T A G A A A T A A A T A G T C T A T A A A T C T A T A C C A G T T T T C A A
A T G A A A A T T A T T A A A T T T T T T A A T T T T A A A A T C C T C A C A C A T C A A T T A T T G A A C C
T A T T G A A A A T C T G A C A A A T A A A A A G C A C A A A G A G A T A A A A T T C T A G A A A T T C A A T
C T A C T T C T A C A T A C T T T C T T T T C A T C A C A A A G A A C T T A A C C A T A T G A A G C A A A A A T
T T T A T T C C T T A A A A A A A T A A T G A A G G C A A C A G C A T A A A T T A G A A A A T G T A A A T T T T

[illegible]

243458 ATCAGGTCACATGAACCTTATTCATCAGCTTACATACCTTTT CATTTCTTTTGCAGTGAACA
TTTAAATTCATTCTTTTAGCAACTTTGAAATACACAGTACATTCTTATTAATTATAGTTC
ACCTTGCTGTGCAATAGATCAACAGAACTTACTCTCTCTAAGCGAAACTTTGCAAGCTTT
GGCCAAACATTTCTGACCAACGGCTGCATTTACAGCTTTCATACCTCCACAGGCTCTGATAA
GCACCATTTACTCTCTACTTTTATAAGCTTTGAATTTTTAGATTCCACATATAAGCTGAGA
{C,T}
CATGTGATATTTGGCTTTCTTGGCTGGCTTATTTCCTTTAGCATAATGTTCTCTTAAAGTTC
ATCCATGTTGTGCAAAATGACAGAAATTTTGTTTCTGTCTTTAGGGCTGAACAGTATTTCATT
GTGTGTATATACCAAGCTTTTAAATCAATTGATCATCGAGCATTTAGGTTGTTTCTCTATC
TTAGCTTTTGTAATAATGCTGGCTGAACATGGGAGGAGATATCTCTACGGGTATATC
GATTTCAATTTCATTTGGATGTATGACCCCAAACTGGGACCTCTGGATGAAGCTGGTAATTC

[illegible]

246742 TTTGTGCGCTGCTAAATAATTTCGGAGCTAGTCTCTCTTTTAAACTTTTCTAAATGTAA
TTTATTATATATAAATCTTTTTCCTTCTTAACTGAAAGCTTTTCTTAAATTAATA
TTTCTTTCTGCTTCGGATGGGAGACTAGAAATAGAGAGAGAGAAAGAGTTCTTAA

FIGURE 3, page 158 of 173

ATGAAATATGCAACCTTTTGAATGAAAGTGAJAAATATGAATGCAAAAATGCTTTAATGA

249099 AACTTTCTTTTGCTATATTTTGT TAAATTGAAAAAGATAAGACTGCTCCCTTCTGCG
TTTTCTGGTCAATTTAGTAGAAGGAAAAATAAAGAGATGAAATTTCCATCJATTCTGC
ATGAGACTTTCTGTATTAATTCAAATTTTAAAGTCTAAAAATTTTCTCAGAAAATTAT
AACTGGATATATATAAAGAGCTGCTGAAAGCACTAGAGCTAGGAATGTAATCTCAGAGA
GAAAGAAAAAGGAAGTGATAAGAGAGAAACCGGCTATTGACTCTTGASTAGAAAAATAG
(A, G)
TCAATAATGAGGATTAAATTTAAAAACAAGAAAAAATATTTTCTACTTCTAAAAATA
AGAACATATTTCAATTATTATTTTAAATTTTAAATAACAAATATTCTATAGACTTTTCTGTCG
CAGTCAAAATAGTACAGCTACCCATTTTTCACATAGTACCATGATGAAATTTAGGACCTA
TCTCACCCCATGATGACTGAGAGTTAAAGTTAGTCTATTTAGTACTTACGAGCCACTGC
ATGCAAAATTAATTGCAACATATGAAATGACTTGTATTTATCTTATCCCTTGCAATGGGG

249256 AATTITTTCTCAAAAATTAATAACTGAGCATATATAACAACTGCTGCTGAAAGCAGCAGAG
CTAGGAATGTAATCTCAGAGAGAAAGAAAAAGGAAGTGATAACAGAGAGAAACCGGCTGATT
GACTCTTGAGTAGAAAAATACATCAATAATGAGGATTAATTTTAAAAACACAGAAAAAA
ATTATTTGCTACTTTTAAAAAAGAGACATATTTCAATTAATTTTAAATTTTAAATAACAA
ATATTCTATAACTTTTGTGGCACTCAATATGTAAGCTACAGCTACCCATTTTTCACATAATA
(G, A)
CATGATGAAACTTAGGACCTATGTCACCCCATGACTCACTGAGAGTTAAAGTTACTCAT
TAGCTACTTACAGGCACTGCTAGTGAAGTAAATTTGCACTCAATAGAGGTAATTTGCTATT
TATCTTATCCCTTGCTAGGCTCTGCTTTTCTTGCTGAGTGTCTGCTTTGCTGCTCCTCCACAAA
ATATGCTGCTGTTTAATTTAGGAGGATAAAGCTGCAATTTTGGAAATAGGAATAGTTAGA
AGTGACTCTAGCTTGTCTTTTCTTTTATAAAATAAATAATCATGAGCTCTTTTATATGCT

249312 AGAGCTAGGAATGTAATCTCAGAGAGGAGAAAAAGGAAATCTAACAGGAGAAACCGGCTG
TATTGACTCTTGAGTAGAAAAATACATCAATAATGAGGATTAATTTTAAAAACACAGAA
AAAAATTATTTGCTACTTTTAAAAAAGAGACATTTTCAATTAATTTTAAATTTTAAATA
ACAAATATTTCTATAGACTTTTCTGAGGAGTCAAAATATGTAAGCTACCCATTTTTCAGAT
AGTAGCATGATGAAGCTTAGGACCTATGCTCACCCCATGACTCACTGAGAGTTAAAGTTAC
(T, C)
CATTTAGCTACTTTAGGAGCCACTGCAATGCAAAATTAATTTGCACTACTATGAGGTAATTTG
TATTATCTTATCCCTTGCTAGGCTCTGCTTTTCTTGCTGAGTGTCTGCTTTGCTGCTCCTCCA
CAAAATATGCTGCTGTTTAAATTTCTAGGAGGATAAAGCTGCAATTTTGGAAATAGGAATAGT
TAGAAGTGACTCTAGCTTGTCTTTTCTTTTATAAAATAAATAATCATTTAGCTCTTTTATA
TGCTTGAATATGCTGAGGACAGTTTATAAGGCGCTGAGGAGAAAAATGTGAAGGAGAGTCT

252710 ATAAATTTGATTACACACATCTCCACTTTGACAAACACCCAAAGTTTGTCTTTTGAGGGGGCTA
TAAGGAAAAAGACATAGTAATAGTAACATAGTAATATATTATCAGTTAATAGTAAAAAA
TTAATAAAACATTTACATCTGCTTTACATTATGTTAATAGTGAAGCTACTAGAATCTGTA
TCAAAACAGAAATTTATTTACATGAAGATAACATAAAAAATGAAATTTTCTCAGAAAAATA
ACCAAAGAAAGATTTGTGCTGTTTCTTAATCTTTTCCCTAATCTTTCTTCTAATATCAT
(T, A)
TCTGCTACATCTTAATAATGCTTAAGCTTAATGCTTAATGCTTAATGCTTAATGCTTAATGCT
TCTGCTACATCTTAATGCTTAAGCTTAATGCTTAATGCTTAATGCTTAATGCTTAATGCT
AATTAATTAATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT
TCTGCTACATCTTAATAATGCTTAAGCTTAATGCTTAATGCTTAATGCTTAATGCTTAATGCT

253417 TGACATACATTTGCTGTAAGGAGTAAATGTTTGACTATTCCTAGATAGAACTATTTACTA
CAAGGCCAAAAAGGGAGATGCTTTTTTTTGTGCTTTTACATTTGACACACACTAGTGTCT
TTTCTCGAAAAAATCGGAAAGGAAACTATATAAACCAATAGAGACTCATAAAACACAG
AAGGCTTGGGATGACATTAATGCTTTTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
(A, G)

[illegible]

CTACTTTTCTCTCTTTGGGTGGGTGGGTACTTTGGTAAGAAAGATTTGAGGCATTTTCTGGATTATTGCAGTTTTCTTAACTTAAGTCAAACCAATTTTCAATAAAGTAAAGATATATGACATTGTCATTTTACTGCTGGCAATTTGATATGACATTTTTTCCAAATAAGTCCAAATAATTACCAATGAAATAGATATTAATTTCAGTCAGTCTAGTGACCTAACAGGATTAACATTAATAAAAAAGTTTGCATCTTGGGTAAAGAAAAATTGCAATTTAAATAGACTTTTAAAAAAA
{A, -}
TCTTAAAGGAATTGCAGTAAAAAAGAGTAATTTCCATGGTTAGAAAGGACAAAGCAAGGTGATATAAGGTCAAATGGCTCTTTTATATAATAAGGTCTACCTGCAAGGAAATGTCGCAAAATACCTTGTAAGGATATAATAAAAGTCACTCTATTCTTGGTGGCTGTATAGTAGTGAATGTGTATTGTATAGCATTAATCATATATTCATGCACTTTGAAAGTAGCTATCCATTTGGTGTGATTTATCAAAATTTGTTCCATCACTTACGATACAAAGTGTCA

260136
 CTTCAAAATTTCGAAAATCGTGTTCCTCTATAGCTCTCTCTGAGTTTAAATACGGCA
 AAGCAATGCGCAATAAATACTTCATTACCATCTCTCTCTGCGAGCTAATAATATTTTAAAT
 TTCTACCAATTTCAAAATGTTTTGTTTATTTCATTTCACTCTCTCTCTCTATATCAGCAGACCT
 CTTCGACATCTGGGACTATTTCTATCTAGCAATCATGAAGGTTTCTCTCTACAGCTTCCT
 CAGTTCCTCAGGGTTGCTCTCTCTTGAATTTGTCTCTCTATTTTCTACCTCAGAGCAAC
 [C,T]
 ATCTTTCTCAAGCTCTCTGACTCTCTCTCTGCTAAAGAGGTTCTCTCAGTGACATCTCTTA
 GCTGTGGCAATTTCTGACCTGTTCTCTCTCTCAGTCTCTCTTTCTTTTAACTCAATTAATTA
 ATTGCTCATTCAGGACCATGATATTTCAAGAGGGAACCTCTCTTTCTACAACAACCAATGAA
 GATCTCTCTCTTTTAAATCTGATTTGATTTGATCTGATCAATCAACAAGTCTGATTAATTAAT
 TTGACTTGAATTTGACAGATTTGACTAACTATTACAAAATGAGTCTGGAATAGGTAATTTT

[illegible][illegible][illegible]

$$[\cdot, \cdot]_A$$

GATT

275637

 (E, C)

276093

[13]

276111

[C.G.]

1000

11. 12. 13.

ACATTTTTGTGGACACCTTACCCATCAATGTGAGATATCATTTCACGTGGTCTCAGCTC
TTTTCTGTGTACATTTATATATTCACATCTTTAGCTTAAGTTGTGAAGAGCTTACCAATGAA

281873 TCTGGCAAGATGATGTTCTGGCTAGTTCGTCACGCAAGAATTATTCCTGCAAGTTTCCATCC
TCTCTATTTTTTGAATTTTATATATTAAGAAGAGAGCTTATCAAGAGAAAATATAAG
GTCAA TTTTATATCTGTCAGCAAAATAAATATTTGGGAAAACTAATACCAATGCTCAATGTG
TTGTAGTTTCTAAAAATGASAACATGTTCTACCCCTGTTTTGTTCACCAAGTAAATTTT
TGATAAGCTATACATTTATAAAGCTGCTCTCATATATTCAGAACTTCATCTATTAAATAT
[T,C]
TGTGAJAAACATAGCTTCAGGACACATAJCCAGCTCTCTCTCTTTTTCCASTGTTCAATAG
TACAACTATAGCTCAJATATATAGTTCTATCAJAGACATTTTTTCTGACCTACTTAJCC
ATCAATGTGATATATATATTTCTACTGCTCTCAJCTCTTTCTTTCTTATATTTATATCTCA
ATCTTCAGCTTAAGTTTGTGAAGAGGTACAAATGAAATGTGATAAAGJGTAAATGATCAAAAG
AACAATTAAGGAACTTCAGAGATAATAAAAAATGATCATGGGTCTCTTTCTTGTGCTATTTT

281795 TCTGCAATGATTTATTAGAATTTCTTGATAAGAJCTCTTTTGAAGCTGGCTTTGTAATTAAG
AGTTCTTTAGAAAATTTATCTATTTATCTGGAATATAGTTTCTCAAACTCTCTGGGCTCAGA
TTCTAGATCTTTAAATTAAGAACTCTGAATTTGATGAATTTCTGCTAAAAACATCTGAGC
AATTTTATCATTTTACATTTGAAAAATAAAAACTAGATCTAAGT
[G,T]
ACCTGATATCTTTTCAACTGACATATTTCTTTCTTTTCTTTCTTTCTTTCTTTCTTTCT
TTTTTTTTTTTTTTTGAJGGCAGAGCTTTCTCTGTTTGGCTGAGCTGGAATCTGAGTGA
AATCTGGCTCACTGCAAGCTTCAGCTCTGGGCTTCAAGCTATCTCTGCTGCTGAGCTCT
CTGAGTGGGCTGAGCTCAAGGCTCTGCTCAAGGCTCTGCTCAAGGCTCTGCTCAAGGCTCT
CTGAGTGGGCTGAGCTCAAGGCTCTGCTCAAGGCTCTGCTCAAGGCTCTGCTCAAGGCTCT
TAGAGACAGGATTTCAAGCTGCTGATGGTCTGATATCTGAGCTCTGCTGATTTAGGCTGCTCT

281891 TTTCTTGATAAGAGCTTTTGAAGCTGGGCTCTGTAATTAAGAGTTCTTTAGAAATTTATCT
ATTTCTTGGAGTATAGTTTCTCAAACTCTCTGGGCTCAGATTTCTACATCTCTTAATTTGA
AGAACTCTGAATTTGATGAATTTCTGCTAAAAACATCTGAGCAATTTTATCTTTAATTT
GAAAAATAAAAACTAGATCTAAGCTTACTCTCAACTTTTCAAGCTGCAAGCTATTTCTTTT
TGTCTTTCTGTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCTGAGCTTTGCTCT
[C,T]
GCTCAGGCTGAGCTGCAAGCTTCAAGCTTTGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCA
AGCTATTTCTCTGCTCTCAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCT
CTGAGCTCTGAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCT
CTGAGCTCTGAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCT

288129 GCTCAGGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCA
TTATCTAATCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCT
AGGCTCTGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCT
TCTTCTTCTGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCT
GCTCAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAGCTCTCA
[T,A]
ATCTTTTATTTCTGAGCTCTCTTAAATGCTCAATAAATAAATTTCAAAATTTCAAAATTT
CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
TAAATTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
TAAATTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT

288190 TGTATTACTTCTTAAATGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
AGTCAACATAACTCAATTTCTGTAAGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
CACAAAGTTCTTATAATTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
AAAAATTTCTGAGAGTAGCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TATAATTTAGAGCTTTTAAATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
[T,A]
TCT

GCAGGCTGAAJAATGGGCTAATACAGCTTCCCTCACAAAACCTTTTATATGCTGAGCGGC
 ATTAATTGCTCTCTCTTCAGACACTCCATACACCCGAGGAGTGGACTCTTTTTTTTTT
 AATTAAGATCCCTTTTTTAATCATGTTCCTACTCTTACAAATTTCTGSTATAGTAC
 [T,E]
 TTTTACAGAGTAGTACCTAACCATTCCTTTTAAATTTTATTAATCTACAAATTTATTTTA
 TTCAATCTAAGCTATGAATTAGGCTACATTTGTTTGTAACCTCCCTGCTCAGAGCTATAA
 AGATAGAGTACAATGATGCTTCTTTGACATTCATACGGACATCATSSGACACACAGG
 CATGTCAGTATTCACAGGCTCACTTAGAAATGAGATGAGAGGGGGTGGCTTCCCCAGG
 ATTCACATGGGGCTGACCTTCACAAATCTGTGCACTTACTATGGGAGTATGACAGATT

296074 TCTCTCTCTCTCTTAAGTGAAGCTGSSGTGACCTTTGATTTTACTTTCTCTCTCTCAAA
 GGGTGTCTTTGAAATAGGGAAGGAGGACACAACTGAGTGTCTTCCAGTGAATTCOA
 AGGAGCTAGATGTTATCGCAGACTTTCTCAAAATAAGACTTCAGAGTCAAAATAAACTTAG
 AAAATGCTGCATTGACAAAATATATTTACTTTCTTTTCAAAATTTCTCAAAAGCTCTA
 TAACAATAATATGAGCTGAGCATCTCTTAAGAAAGGACATTTCTAAATGGGTTAATTA
 [C,T]
 GGCAAGGCTCTTTGAGTAATATCTGTTAAATCTCTCACTCTTCTGGGTAACATAATGGCAAG
 GGAAGAGATGAATGAGGACAGGCTCTCAAGTTCAAAAGCTTTCTCTCTTACTTATTTGA
 AATTCTCTTGAATAAGGCTTTCTCTCTGAGAAACATCTGGCAATGGAAGAGCATTCAGAA
 AACAATAGGCTATGATTAATATAAGGCTTTCTTAATAATCTGATTAATAATAATATCTAGC
 GATCTAGGAGGAGCAAAATATTTCTTAAGACCTTTAATTTCTCTTATTTTAAAGATCTCAAG

307709 GTTGAATCTACTTTTAAAGCTCTGCTTATTATTATGCTGCTCTCTATACTCTTACTTA
 TTTCTCTCTCTCTCAATATCTCTTGAATTAAGAAAGTGAATTAAGTCTCTCTACTGTTA
 GAATACTCTCTGCTATTTTTCTTCTCTCTCTGCAATTTCTCTTTTATGAATATGGCTT
 CTCTCTCTTTATTTATAGATATTCATATTTCTAGGAGGACATATATTCTTATTAATAGTA
 TAAATTAGCATTTAGCATTAACAAATATCTCTCTTTCTTTTACTAAATTTCTCTCTAAAT
 [T,A]
 CTACTGATATCTTAAATCATGACACTGAGTCTCTTTCTTTTTCTCTCTCTCTCTCTCTCT
 TTAAGGATCTCTTTAGTCTATTTGCTTTGTTTTGCTTGGTCTCTCTCTCTCTCTCTCTCT
 TGTCTTTATGCAATCTGAAAGCTTTCTCTTTATTGCTTATAAGAAATGATCTTCTAGCTT
 AATTGATTATAACTGCAATAGGATTTTCACTTTATTGAAGCAAGGAGCTTTCTCTCTCTCT
 TTGATCTAAGCATATCTAGGTTAAATATACTTCTCTGAAAGTACTTCTATATGTTATCTCT

317082 GTGGGCTTAAGGCTCAGACATCTCTCTTAAGGCTGAGACAGGCTGCTGCTGGAATAACCA
 GCTCTTCCAGGTACACTGCTCTGCTCTCTCTCTGGAATTTAGTCTTAAGGCAAGAACTACG
 TTATCCAGCATTTATGCTCTTTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GATGCAAGGCTCAGGTAAGCTCTGCTCTCAATTTGCTGAGAAATCTGAAAGGCTTATCTCTCT
 ATTTGAGCTCTCAGGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 [C,T]
 TCTCTTAAATCTCTCTTTTAAATAGGCTAAGGCTGAGAGTCTCTCTTAAATAGGCT
 TTTCAATCTCTCTTTGAGGAAATGCAATCTAAGATAGGCTCTCTCTCTCTCTCTCTCTCTCT
 TGAGGCTGAGATCTCTCTCTTATGAGCTTTCAACAAACCTTACTTTACTTCTCTCTCTCTCT
 ATCT
 CT

317084 TATTAATTTTATTAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAAT
 TTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAAT
 ATTCT
 CT
 CT
 TTACCATGCTAAGTCT
 [T,E,G]
 GGGGCT
 AAGGCT
 TATGAAATGCT
 AAGGCT
 AAGGCT

FIGURE 3. page 167 of 173

[A, G]
TATSTACTGCTACACTGACCACCTGGGTAATTTTCTATATTGATTTCTCAATTGGTTTCC
TAAATAAATTCAGAGCTGGTGATGGTTATGAATTAATACCGTTAGGAGGAAAAATGTTT
GCTTACCAACCTAGGAAATTTGAAAAATCAGGGAAATTTATGGCAGTATCCCCCAAAACCC
AAATTAATTTTATTTTGTAGGCAATTTAAAAAGGCTATGCAGCTTGAACCAATAGTGG
GATGGGATTTCACTACATCATTTTCTTTTTTTTTTTTTTTTTTTTTTGACCTGTCCACTG

331494 ATCTTACTCTCATCACTCATATAATAATTTTACCTCCAACCTGGTGGCTTTCTATTTT
GCTTTACAAGTCATCAGTAAAAATCTACCTCACTTTCTCTACTTGGTAAATAAGTCATAA
TACAATTTTGGCTTTTAAATGGCTCCACCTCCTTGGTATCTCAAATAATCTGCTTCCCT
CTCAGACTTGGTGTCTTCAATTTTAAATTAGTCTATGAATCTGTCTATGATTCTGAAGTA
AAACTACTTTCAAGGTTTGTTCAGAGCTTTATCTCTCTCTAGCTATATGACTCATAAA
[C, T]
AAAATAAATGAATCTAATACAACTTGTCTCTCATAGGCTGCATTGGGCATTACCCAGTAT
CTTGTCTATCTGATAAGGATTTGAAATTTGATTTTCAATGATAACAGTTTACTCTGGCAAA
TAATATGTCTATGCACTGAAACAGACAATATGAAGAAAAATAATTTGATGATTACTTCTTA
TGCATTTTCTAAGTCTTAACTGGTTGGCTTATACTTATTGATAGTCTTCTTTTACAAA
GTTTAATTATTAAACACTGCACTTGGCATCTTCTTTCATGTTAAGTCACTTGAGGAATTTG

331495 TCCCTACCTCCATCACTCATATATTAATTTTTACCTCCAACCTGGTGGCTTTCTATTTT
CTTTACAAGTCATCACTAAAAATCTACCTCACTTTCTCTACTTGGTAAATAAGTCATAAT
ACAAATTTTGGCTTTTAAATGGCTCCACCTCCTTGGTATCTCAAATAAGCTGCTTCCCT
TGACATTGGTGTCTTCAATTTTCAATTTAGTCTATGAATCTGTCTATGATTCTGAAGTAA
AACTACTTTCAAGGTTTGTTCAGAGCTTTATCTCTCTAGCTATATGACTCATAAA
[A, G]
AAATAAATGAATCTAATAACAACCTGTTTCTCATAGGCTGCATTGGGCATTACCCAGTAT
TTGTCTATCTGATAAGGATTTGCAAAATGATTTTCAATGATAACAGTTTACTCTGGCAAA
AATATGTCTATGCACTGAAACAGACAATATGAAGAAAAATAATTTGATGATTACTTCTTA
GCATTTTCTAAGTCTTAACTGGTTGGCTTATACTTATTGATAGTCTTCTTTTACAAA
TTTAATTATTAAACACTGCACTTGGCATCTTCTTTCATGTTAAGTCACTTGAGGAATTTG

331639 CACCTCCTTGGCTATCTCAAGTAAACCTGCTTCCCTCTGACATTGGTGTGTTCCATTTCCA
ATTAGTCTATGAATCTGTCTATATGATTTCTGAAGTAAACTACTTTCAAGGTTTGTTTACAG
CTTTTATCTCTCTCTAGCTTATATGACTCATAAACAAAAATAATGAATCTAATACAACT
TGTTTCTCATAGGCTGCATTGGGCATTACCCAGTATCTTGTCTATCTGATAAGGATTTGCA
AATTGATTTTCAATGATAACAGTTTACTCTCTGCAAAATAATATGTCTATGCACTGAAACAGA
[C, T]
AATATGAAGAAAAATAATTTGATGATTACTTCTTATGCATTTTCTAAGTGTAAACTGG
TTGGCTTATACTTATTGATAGTCTTCTTTTACAAAAGTTTAATTATTAAACACTGCACTTTG
CATCTTCTTTTCATGTTAAGTCACTTGAGGAATTTGGGTTTTATTAAACTTTAGCTAAATA
AACTCAAGTGGCTTAAGATATATCTACAAATACTGATGATTTAAAAACAACCTTTGTCT
GTTTGGTTTTCTTCTTCTATGACATTTGGGCTTCCAAAATGATTTTAAAGTAGCAT

331724 TATAAAGGTTAGGTTCTATATGAAATGAATAATATGAGTAAATAAATTCCTTCAAG
CTTCTTATATTTTCTTCTAATGAAATTTCTATTTCTATGATAAAGTCAAGGAGTCT
AAATGAATTTCAACTCAAGGAAATCAAGGATTTGTTAAATAATGAAATTTATTAAAT
AATTAAGTTTCTAATAAATCACTTCAAAATTTTATGAAGAAATAGTCTTCTTCT
GATTAAGTCACTTCAAGGAAATGATGAGTATGATTTCTAATATTTATCTGAAATA
[A, G]
GTTGATGATTTATTGTCAAAAATGCAAAATCTTAAAGTCTAATTTTAAAGTGTTTATAG
TTGCTTGATGCTTAAAGTACATTTTGATCCCGAAAAATGGGTTCAAGTCATTTTGAACAG
GAAAAAATAACAAAGGCAACTATGCTGGCTAAGCAATTTATTGATGGAATTTGTATGTT
TTAAGCACTTCTGGGGCACAAAAATAGGGAAGTCAAGGATTTTATAAAATTTCTCCCTGT
TTTAATTTTAAAGGCTAAATAAGTCTAAGTAAATATTTCTTATTAAGGAGATACT

331789 AATTAATTAATATTAATAAAGTCAATATGATGATTAAGTCACTTCTTCTAATTTTAT

1. The following sequence is a partial sequence of the DNA fragment
containing the gene for the proteinase inhibitor (PI) of the
insect *Phormio* (Hymenoptera: Braconidae) and is identical to the
sequence reported by [1].

FIGURE 3, page 168 of 173

347813 CTTACACAGCTTGTATATAAATCTATTTTCAGTAGTCTCAATTACATGTTATGATGCGAA
CTTTTAGCAATTTTAAATTTTAGTGTAAACCTGGTAAGTATTTTAATTATGTAATTA
CTATAATAAATCTGACTCCAGCATACTTAGTGACCTGGTTAATTCCATATGTTCTAAG
CTTACACAAATTTAAAGCAGGCAAGTTGAGCAGTTCTAAAGGCTAAAGAAATTA
TAACCTTAAACGATTTAGCAACCTAGTATCTGACCTGCATACCTTTAGAGACATATTTA
[T,C]
ATTTTAAAGACATTTGTATTTTACCAATAATCTTTAAGACTTTTATTTTCAAAAGATTAA
AGTACATGAACCTAAAGGCATTATAGCTTTTATTTTTCCTTCAAAAAATATTTGATGTA
AGTCTTATTTTCTTTAAGGCAATTAATTAGAGCTCTATTTCTATATAAGCATCAGACA
TCTAATACATATATGATTACACAGACAGAAAGAGATCCAATAGTTGTAAGAAATTTTCATT
TGTCTATCTCTAATTGAAATTAATCTGACTCAGGGTATAGCTCTCCAAAGAGGAGGTA

352440 AATTAAGCAGCAAAATTAATTTTCTATTTTACTAAATGCTATATGCATATCAATACAAAT
ACATAATGACATATATTCTAAATTAAGATGTTATTTCTAATTAATAAGCAATTAGCTA
GGTAATTAATAAGTGTGAAAAATCAACTTCTGTGTATTCTAGATGATGAAGGAATAACA
TATCTATATGAAATCTCTGCTAGCCAACTGACTAAGCACCTAGCTTTGAAGGGGAAGCATT
TATGCTGTAATTTCTGTAAAAAGCACCTCTTGGGCTTTTATATGTTTGGTTATGCGGGCAAG
[G,A]
TGTCCGAGCCCTGGCACTGGGAAGTGGTGGACTCATGGGTTGGTAAAAAATTAATTAAGTGG
AACACTATAAGTTTGAAGAGGGAAAGTTTATTAGAAAGGAAGCACTGCAAAACAGTGC
AGTGGGGCACCCTCACTGAGAGGACTGAGCGCAGATTTTCTTTTGGGATATTTATGGACC
TTATGGTGGGAGTGTAGGATTTGTAAGTGAATTTTCAAGCATGGCATTCAGAGATGTATAG
AAAGTTTGTACTTATAAGCTTTTAGGAGGAAAGAGATCTGGAACAAGATGCTGTCTT

352503 TAATGACATATATTCTAAATTAAGATGTTATTTCACTTTAAATACCCAAATAGCTAGGT
AATTAATAAGTGTGAAAAATCAACTTCTGTGTATTCTAGATGATGAAGGAATAACATAT
CTATATGAAATCTCTGCTAGCCAACTGACTAAGCACCTGAGCTTTGAAGGGGAAGCATTAT
GTGTAATTTCTGTTAAAAAGCACTGTCTGGGTTTTATATGTTTCTTATGCGGGCAAGGTG
TCGGAGCCCTGGCACTGGGAAGTGGTGGACTCATGGGTTGGTAAAAAGAAATTAAGTGGCA
[C,T]
AGTATAAGTTTGAAGAGGGAAAGTTTATTAGAAAGGAAGCACTGCAAAACAGTGCCT
GGGGCACCCTCACTGAGAGGACTGAGCGCAGATTTTCTTTTGGGATATTTATGGACCTTA
TGGTGGGAGTGTAGGATTTGTAAGTGAATTTTCAAGCATGGCATTCAGAGATGTATAGAAA
GTTTTGTACTTATAAGCTTTTAGGAGGGAAGAGATCTGGAACAAGATGCTGTCTTGTG
ATAATGGGAAAGTCTAATTACTTCTAATTTTCCAGAGATAAGGAGTTTGGCTGTGGATG

355895 TTGCTGTATTAGTTTCTCATACATTTCTCTCTCTCTCTCTTTTCTTACTAAGTTCAGAAATC
TACCAACTCACTTTGTGTTTTCAATAAAGAAAGACTTCTCTTCTCTCTCTATATTTCTT
CTATAAAGATGAAGAGTTTCTGAGCTGTAGAGTTTCTTTAATTTAGCAACTGGA
CACTGTAAAGTATGAGAGTTCACTATAAAGTTACCTGAAGCAAAAGTATTTCTAATAAC
AAGTATTACTTCTTTCACTTTACATAACTTATTACTTGAAGCAATTAAAAACTAAGGC
[G,A]
TAAATTAATTAATTAATAAAGGAAGATTAATTAATTAATTTTATATTAATTAATTA
ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA
ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA
ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA
ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA
ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA
ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA

356029 GTATGAATAAGTTAGGATGCATCTCTGACTTATTGCGGTCCTCTGGGTTTCTTACACAT
TATTATTGTAGCAATTTTGGAGGAAAACTTCTTAAGAGCATATGAACTGTCTTAAAGC
AATTGTTTGAATAGTTTGAAGCTTGTGCTCTTAGCATACAGGATGCTGAAAAGGAGAA
TGGGACCAAGGAGACACAGCATTGAGACCTGTACACTTCCAGATTCACAGAACTGGC
TTATTTTATGCTGCTTTATATATTGGCTTCTCTTAAGAGTGTGTGTGTGTGTGTGTGT
[G,T]
TCTGCTGTCTGT

[A, C]

AATAGGCTTAAGAGAGAGTGTGAAGTCTACACTGTGAGTTATGGCTGCAATTGTCTCAAA
GATCAATAAGGGATGATCTGTTTCAAGCTTTCTTACTAGGCTGTTGGCTGCTCAGATG
ATCTCTCTGTGAGCTTACTTATGTGAATTTTCAGTAAGGCTGTGTTTCTCAGAGCAAT
CATGGGAGCTGGTTTCTCTCAGAGTAAGAGCTAAAGAGAGATGAGAGTGCACACAGA
CAGAAAGCCACAGCCCTTTTACAACTTACATAGTAATGACATCTTETCACCTCTGCATA

367405

TAACCTCATGGGACTTTAATTTCTTCATTGAAAGCTSAATGGTAATAAGAGCTACTTTA
TAGGATTAATTGTGAAATTCATGAGATAATTCCTATGCAGCTCTTSGCACAATGTCTAG
SACATASAAAGACCTTAAGAAGGCTAGCTTGTATTATAAATTCCTCATTTTAATCTGASCC
ATTTCTATGCCATATTGTGCAACCCACAGCAAACTACAGTAGAGTCAATTTTGAAGCTCTTAC
AAAGCTGTCTTTATCTGAAAGAGCTTTCATTATTATATAAAACCTCAATTCAGAGAGTTAA
[G, A]

TTTCTCTACAGAAAGACTTTTATACACACACAAATGCACATACCTTAAAGCATACAAATTTTGG
ACAAAGTGCTTTTCTCTGTACTCTCTGAGCTCTATGATACCTCTATCATGCTGTCTCAT
CACACTCTATCGCCATTTCTTAATTTCTCTATGGTCTCTATTAGAAATGAGCTCTTCTAAG
GAGTCTTTTATTTCTCTATGCACAGAGCTTACCTCTGCTCTGATATAAATAAATATGT
CTCTAATGAATGTGGCAGAAAGGCTCTAAATAAATAAATGATTTGGAGATTTTCTGATCTA

367694

CAGAGAGTTAAGTCTTTCTACACAAAGACTTTATACACAGCAAAATGCACATACCTTAAAG
ATACAATTTTGGACAAAGTGGTTTCTCTGTACTCTCTGAGCTCTATGATCTAATCTAT
CATGGTGTCTCATCACAGCTATCTGCAATTTCTATTTCTCTATGGTCTCTATGAGAAATAG
AGCTCTCTTAAGGAGTCTTTTATTTCTCTGTATCTACAGAGCTTAGCTCAGTCTCTCTG
TAATAAATATGTCTCTAATGAATGTGGGCAAGTCTCTTAATAAATAAATAAATTTCTGAG
[T, A]

TTTTTGTGTGATGTCTCTCTCTCTCAATTTCTCTCATCTACTTCTGACAAGCACTTACTCAT
CCCTCAAGCTCAAGTCTGTGATTTGCATAAGGATATTTCAACTCTCTCTTTGAAAGAGAAAGCT
GGCAGAAAGAGTCTGTTAAGATCAAGAGCAATGTCTCTCTCATATGAGTCTTAAGAGACA
CAATTAATAATAAGGTCAATATTTCTCTCTCTGATCTTCTGATTTTGGGCTTTTGAAT
TTACAACTTTGTAAATAATTTCTCTCACTCTCAAGCTCAACTCTCTCACTCAGGCAATTTATTT

371966

GGACCAAGGCTCTCAAGCCACAGGCTTTGATAGTGGGAAGCTACTCTCTCTAAAAAGCATA
TCATTTTCAAGCTGAAAGCAAAACAAAAACCAAAAGCACATATCTTTAAGATTTACTCAAG
TAGTACGGTGTCTCAAGATCTCTAGATGGCCACAGTAGTCAATCTCTCTCTCTCTCTCT
GTCCATATGGTAAATATTTATTTGCTTTGCATACAAAGTACTCAGGTCAAGCCAAAGATATCT
TGAGTTCAAGGACATCTCTCTGGCTACTTCTGTGTACAGGGTCAAAAGCACATGTTGTTCAA
[C, T]

TGGTGTCTTATCTGAAGTGTCTTACTATGGTACTAAATATGATTTTCTCTCAAAATGTGTTG
GTTTATATGAATGACAAGGCTTTACTTTTATATAGCAATAAATTTGATAACAGTATTT
TAGCTATTACATACCACTTAACTTTTCAAAATGTACTATAACAAAGAAATGAAGGCAAGG
ACAGTTGCTCACAGCTATAATCCCAAACTTTTGGAGAGCTAAAGTAGGAGAAATGTCTTGA
GACCAGCTGTGTCAACATAGCAAGATTTCTGTCTCTACAAATAAAAAATAAAAAATTAAG

382277

TAAGCTACAAAGATCTCAGGAATTTAGAGAGCTTAATATATAGATTAATATATATAG
AATTAAGCTCTAAGAGCTTAAGAGATAATTTATATATCTTTTCTCTCTCTCTCTCTCTCT
CTTATTTCT
AATTTCT
TATCT
[T, A]

ATTATTTTGAAGCAGAAATCTCACTTTGTTGCTCAGACTGGAAATGCAGTGGTGCATCTCTG
CTCACTGCAAGCTCAACCTCTCTGGGCTCAAGCAATCTCTCCAGCTCAGACTCCCAAGTA
CTTGAGACCACAGGCACATGCTATCAGGCTCAAGCTAATTTGTTTCTATTTTGTAGAAA
CAAGTCTCACTATGTTGCCCAGGCTCAGACCTTTCAACTCTCTCTCTCTCTCTCTCTCTCT
TTTCT

29,081

ATCTTAAATTATTATATCTAGAAAACTTTTAAATAAAATCAGATTTCATAGG
ACCTGGAATTATGAGTTCAACAGATCTTTGTAGGATACAAATTTAACTGAGAGTCATA
TTAAGAGTTATAAGCATAAGAAGTTCTAATCTTTTATTCTTTGAACATAATTATCTAA
TATTGTAAATAAGAATAATATAAATCTTGAATAATTCTTTCTTTTAAAAAASAGC
CTGTATATTATTCTGTATGAGAAAGTTGACATAAAATACAGAGCTTGAGATTCCTATCT
[A,T]
GTCAGATTAGACCTTCAGCAACCTGGAAGTGGCTTTTATATGGCGTCTCTACCCCTAC
TTCTCTGGCATTCTTATTCTTTAGTAAAAATATAAGGCTGGCTTACAATTGCCAAGACACAA
CACATGATTTTATCTTTCTTACCCCTTTTTCATTCTGTCTCTCTGCTTGTAAATATCCTT
CCCTTCCCAACTTCCTCATCCCTTAGCTGTGTCTCTTTCTGACTCCTATTCACTCTCAGT
TCAACTGCCATCTTTTCCCAAAAATCCTCTGTGAAGACTACCCACCTACTCCATCAGCAC